

10/598,458

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(FILE 'HOME' ENTERED AT 22:33:59 ON 23 FEB 2011)

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L1 STRUCTURE UPLOADED

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L3 744 S L1 SSS FUL

L4 372 S L3 AND CAPLUS/LC

L5 372 S L3 NOT L4

FILE 'CAPLUS' ENTERED AT 22:35:10 ON 23 FEB 2011

L6 1 S L3

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L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:979630 CAPLUS

DOCUMENT NUMBER: 143:286456

TITLE: Preparation of benzothiazepine and benzothiepine compounds for prevention and treatment of hyperlipemia

INVENTOR(S): Sasahara, Takehiko; Mohri, Mitsunobu; Kasahara, Kenichi

PATENT ASSIGNEE(S): Asahi Kasei Pharma Corporation, Japan

SOURCE: PCT Int. Appl., 551 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005082874	A1	20050909	WO 2005-JP3686	20050225
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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AU 2005217318	B2	20100701		
CA 2557576	A1	20050909	CA 2005-2557576	20050225
CA 2557576	C	20100209		
EP 1719768	A1	20061108	EP 2005-710810	20050225
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1930137	A	20070314	CN 2005-80007914	20050225
US 20070190041	A1	20070816	US 2006-590458	20060824
PRIORITY APPLN. INFO.:			JP 2004-128992	A 20040227
			WO 2005-JP3686	W 20050225
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S): MARPAT 143:286456				
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Benzothiazepine or benzothiepine compds. represented by the following general formula (I) which have a thioamide bond and a quaternary ammonium substituent [R1a, R2a = C1-10 alkyl, C2-10 alkenyl, C2-10 alkynyl; ma = an integer of 0-4; Rx = halo, NO₂, NH₂, cyano, HO, CO₂H, CONH₂, SO₃H, C1-5 alkylated NH₂, each (un)substituted C1-10 alkyl, C2-10 alkenyl, or C2-10 alkynyl; a combination of (A1, A2, A3) = (CH₂, NH, CH), (CH₂, CH(OH), CH), (NH, CH(OH), CH), or (CH₂, CH₂, N); Y = NHC(S), NHC(S)NH, NHC(S)O; Za-(N+R5aR6aR7a)n = C2-10 alkyl or alkenyl substituted by n number of

(N+R5aR6aR7a) with ≥ 1 CH₂ of Za optionally being replaced with (un)substituted phenylene or O; n = 1,2; N+R5aR6aR7a is selected from (1) R5a, R6a, R7a = each (un)substituted C1-10 alkyl, C2-10 alkenyl, or C2-10 alkynyl with ≥ 1 CH₂ optionally being replaced with phenylene, thienylene, furylene, cyclohexylene, cyclopentylene, O, S, CO₂, NHC=O, (un)substituted NH, or ammonium ion, (2) C4-9 mono- or bicyclic ring containing ammonium N atom with at least one of the ring C atoms being replaced with O, N, or S, and (3) (un)substituted pyridinium, quinolinium, or isoquinolinium; X⁻ = a counter ion] are prepared. These compds. are useful as remedies and preventives for hyperlipemia, arteriosclerosis, syndrome X, and other coronary artery diseases and as cholesterol-lowering agents. They are also useful as remedies and preventives for liver disorders accompanying bile stasis, in particular, primary biliary cirrhosis, and primary sclerotic cholangitis, and obesity, fatty liver, and fatty hepatitis. Thus, 95 mg 1-(4-isocyanatobenzyl)-1-azoniabicyclo[2.2.2]octane bromide (preparation given) was added to a solution

of

116 mg 5-(3-aminophenyl)-3,3-dibutyl-7-dimethylamino-4-hydroxy-2,3,4,5-tetrahydro-1-benzothiepin-1,1-dioxide in 3 mL CHCl₃ and stirred at 50° for 2 h to give 190 mg -2,3,4,5-tetrahydro-1-benzothiepin-1,1-dioxide derivative (II). II at 0.3 mg/kg twice a day for 5 days lowered a total blood level of LDL and VLDL by 49% in rats on 5 day diet of a feed containing 0.5% cholesterol and 0.5% bile acid.

IT

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1234632-19-9P		

RL: PAC (Pharmacological activity); PRPH (Prophetic); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

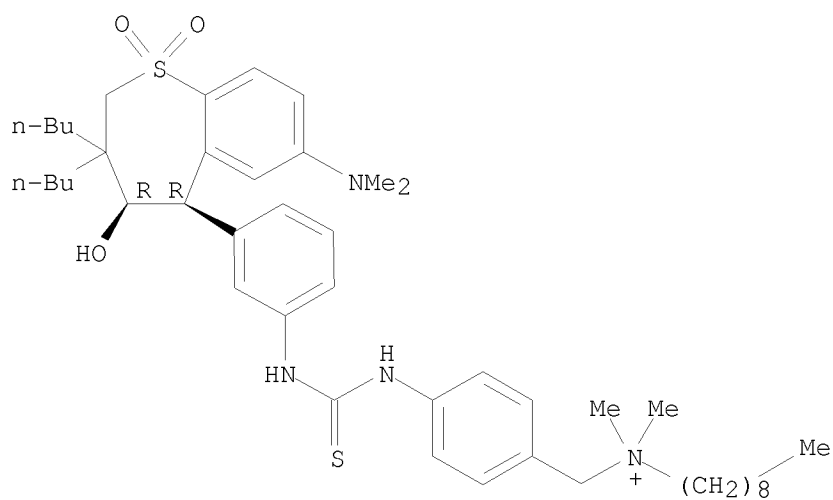
(preparation of benzothiazepine and benzothiepine compds. for prevention and treatment of hyperlipemia and lowering cholesterol)

RN 1234629-83-4 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-nonyl-, bromide (1:1), rel- (CA INDEX NAME)

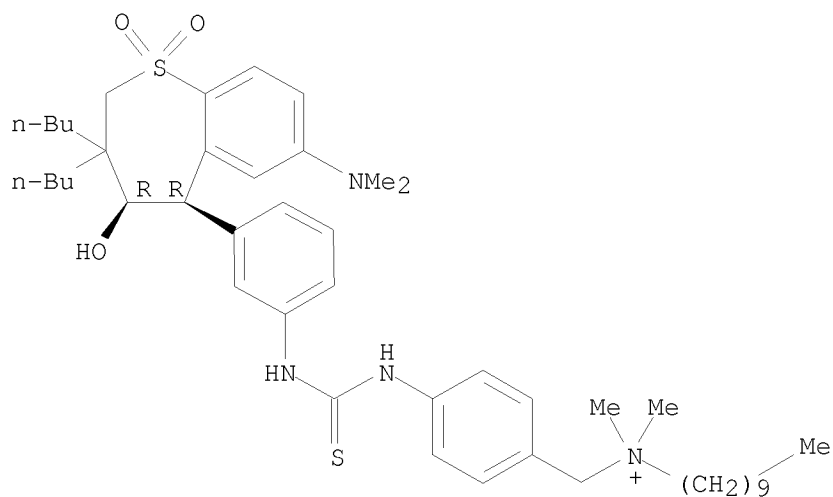
Relative stereochemistry.

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RN 1234629-84-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

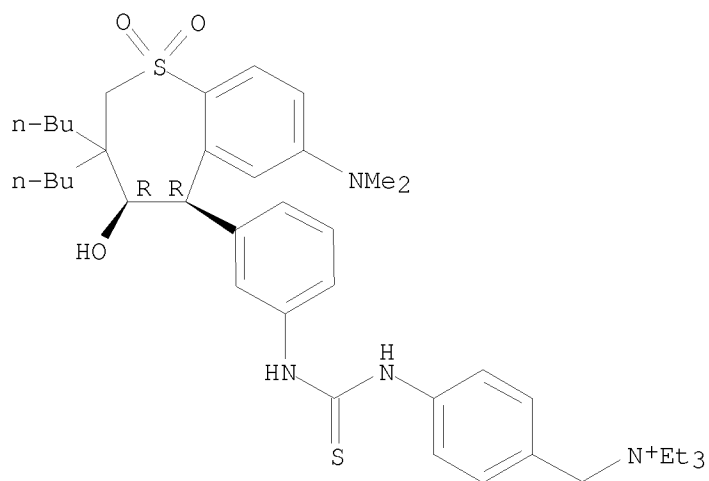


RN 1234629-85-6 CAPLUS
CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N,N-triethyl-, bromide (1:1), rel-

10/598,458

(CA INDEX NAME)

Relative stereochemistry.

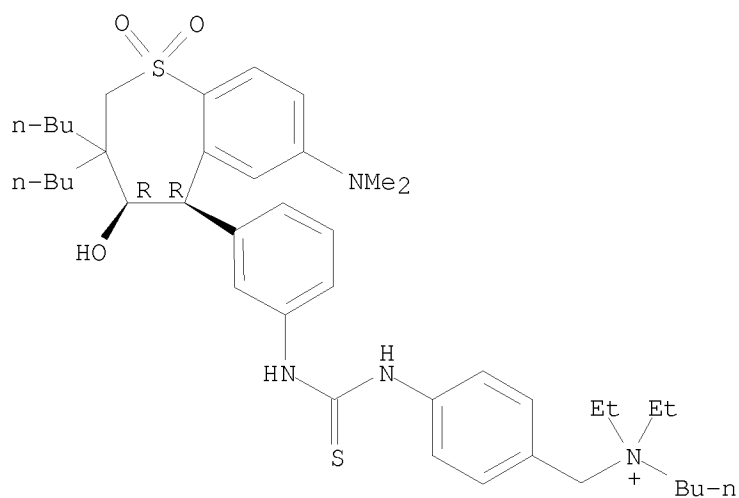


RN 1234629-86-7 CAPLUS

CN Benzenemethanaminium, N-butyl-4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-diethyl-, bromide (1:1), rel- (CA INDEX NAME)

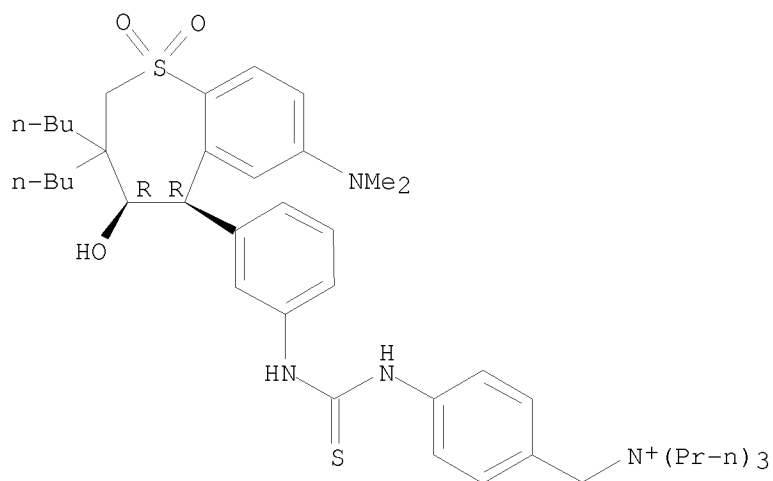
Relative stereochemistry.

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RN 1234629-87-8 CAPLUS
 CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N,N-tripropyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

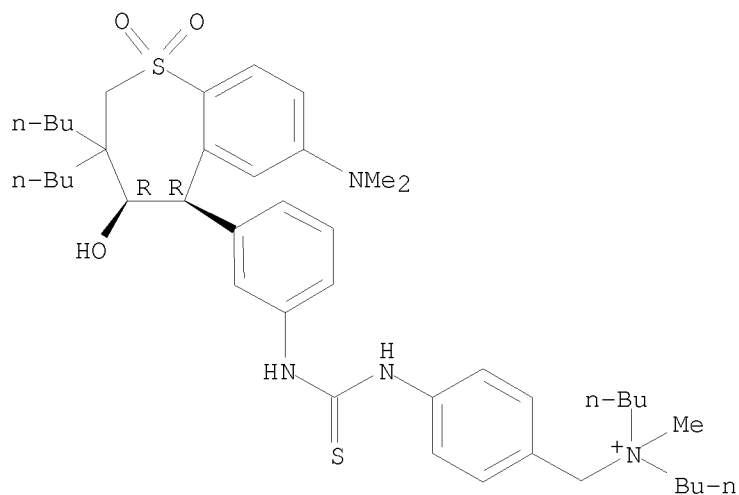


RN 1234629-88-9 CAPLUS

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CN Benzenemethanaminium, N,N-dibutyl-4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-methyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

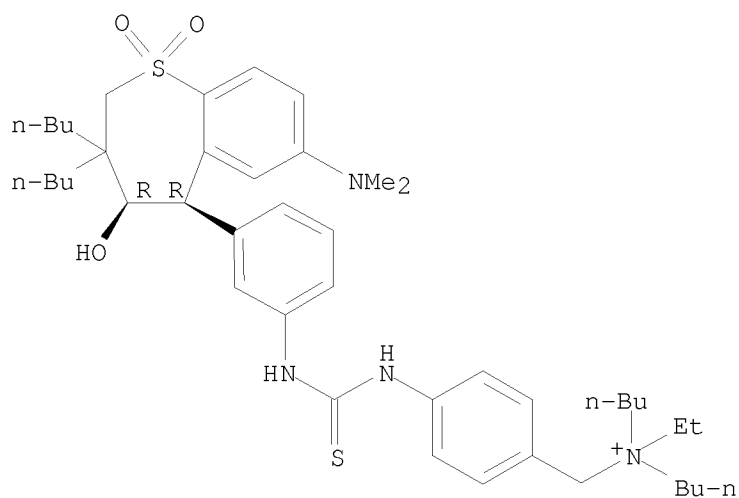


RN 1234629-89-0 CAPLUS

CN Benzenemethanaminium, N,N-dibutyl-4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-ethyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

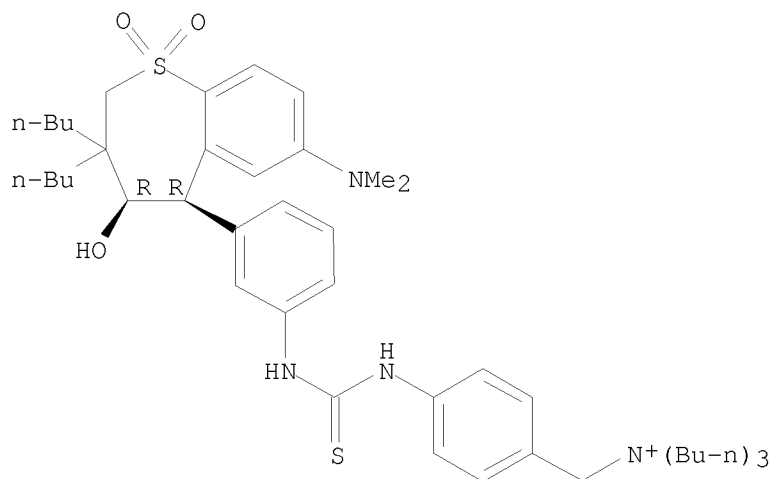
10/598,458



RN 1234629-90-3 CAPLUS

CN Benzenemethanaminium, N,N,N-tributyl-4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.



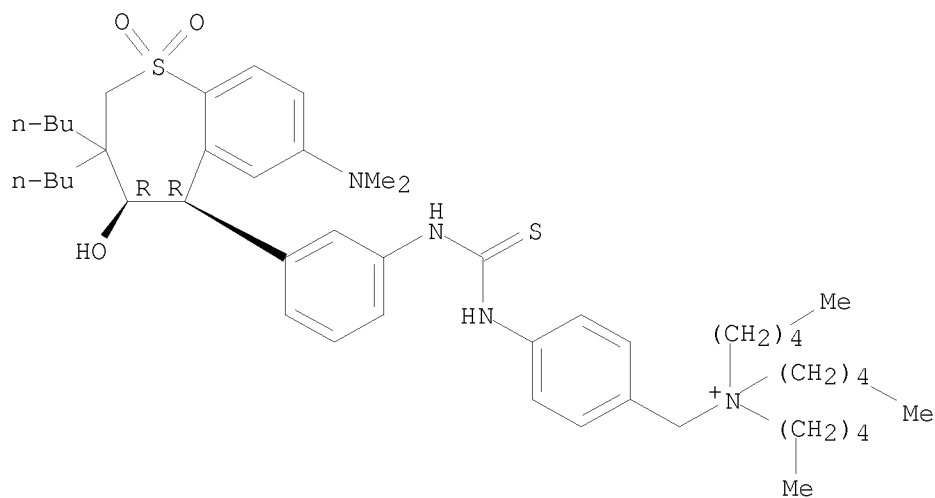
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CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-

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2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N,N-tripentyl-, bromide (1:1), rel- (CA INDEX NAME)

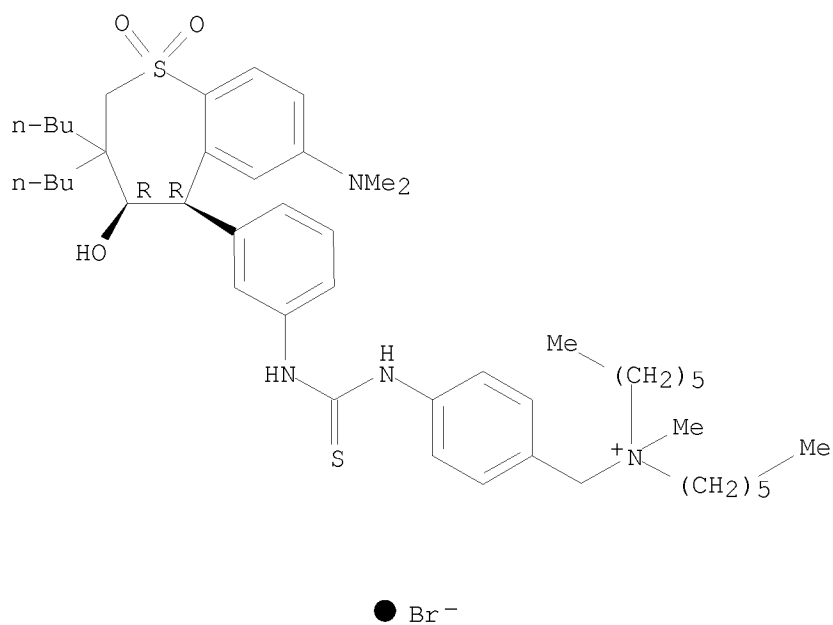
Relative stereochemistry.



RN 1234629-92-5 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dihexyl-N-methyl-, bromide (1:1), rel- (CA INDEX NAME)

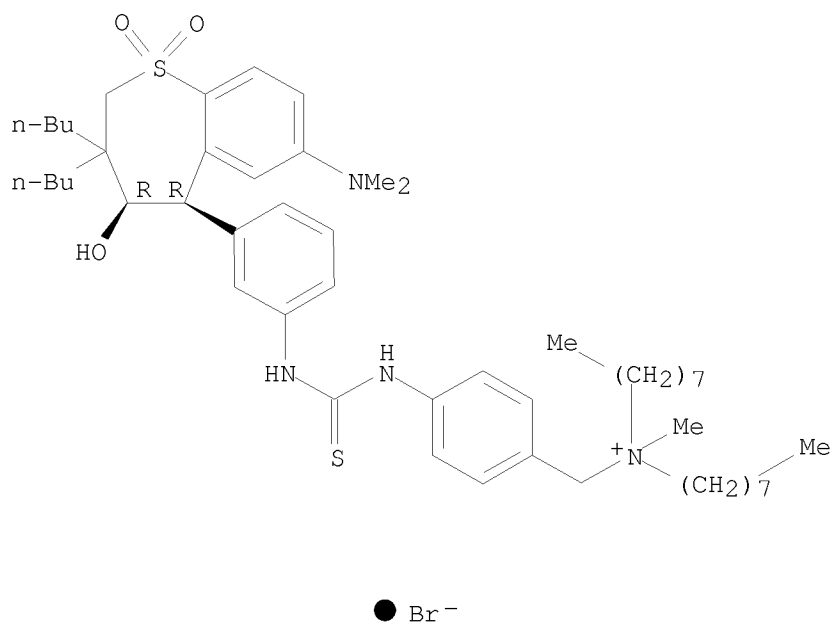
Relative stereochemistry.



RN 1234629-93-6 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-methyl-N,N-dioctyl-, bromide (1:1), rel- (CA INDEX NAME)

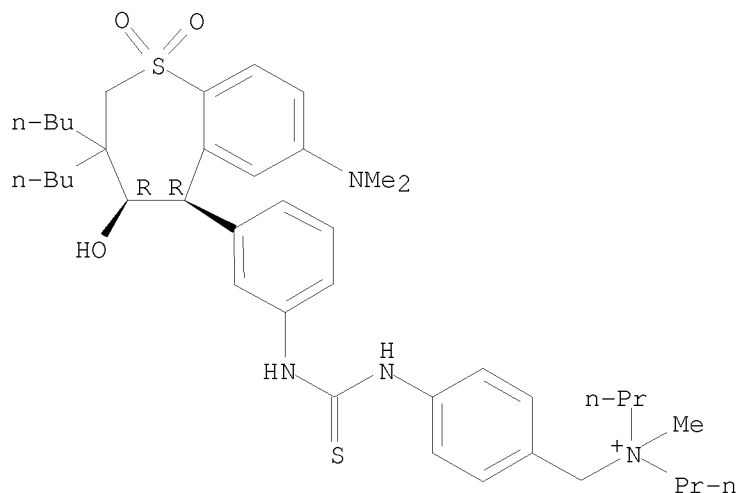
Relative stereochemistry.



10/598,458

RN 1234629-94-7 CAPLUS
CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-methyl-N,N-dipropyl-, bromide (1:1), rel- (CA INDEX NAME)

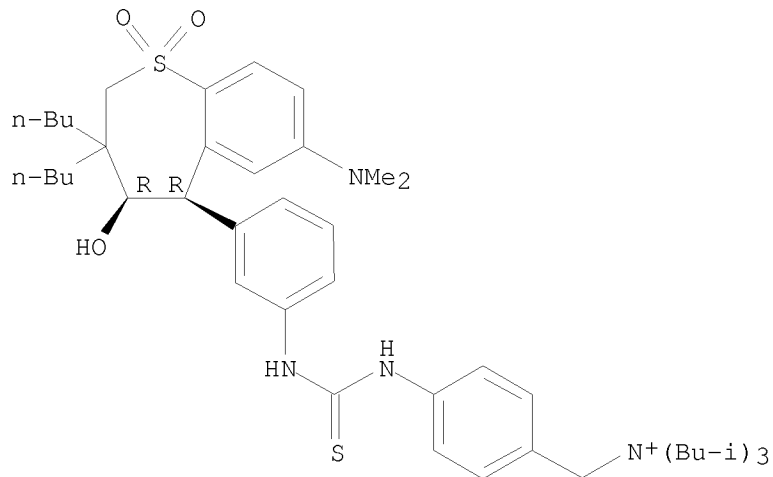
Relative stereochemistry.



RN 1234629-95-8 CAPLUS
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Relative stereochemistry.

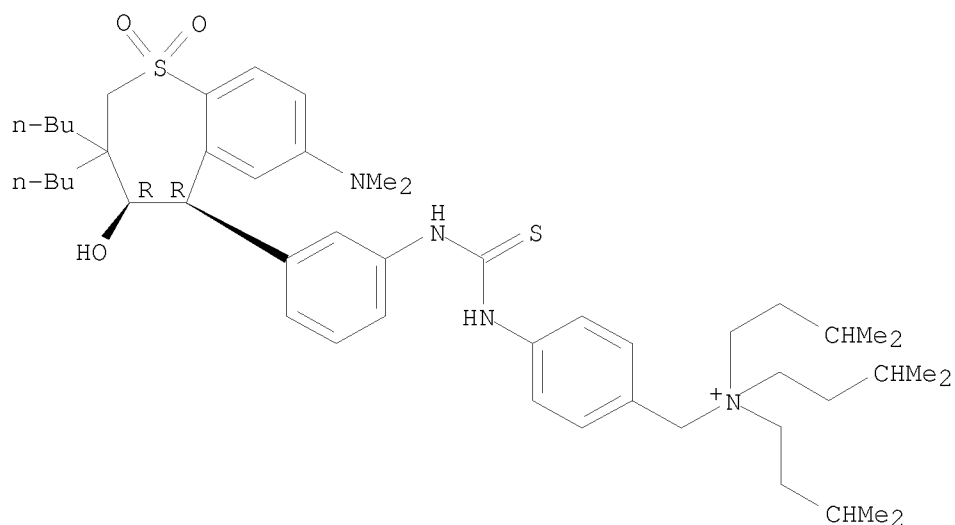
10/598,458



RN 1234629-96-9 CAPLUS
 CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N,N-tris(3-methylbutyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

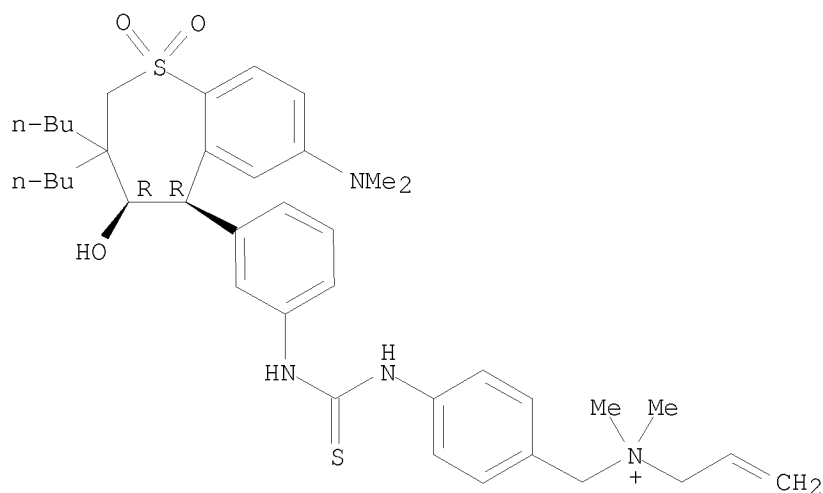
PAGE 1-A





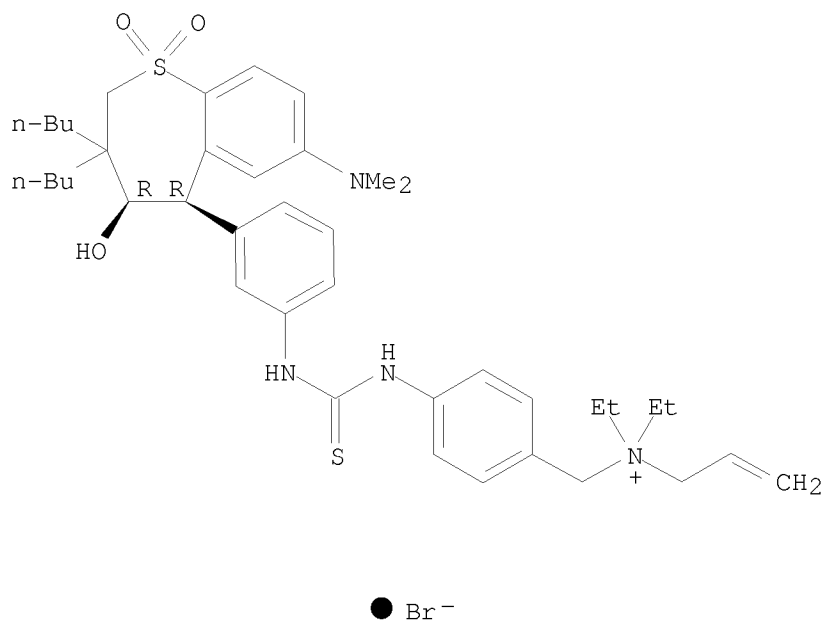
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 CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-2-propen-1-yl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.



RN 1234629-98-1 CAPLUS
 CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-diethyl-N-2-propen-1-yl-, bromide (1:1), rel- (CA INDEX NAME)

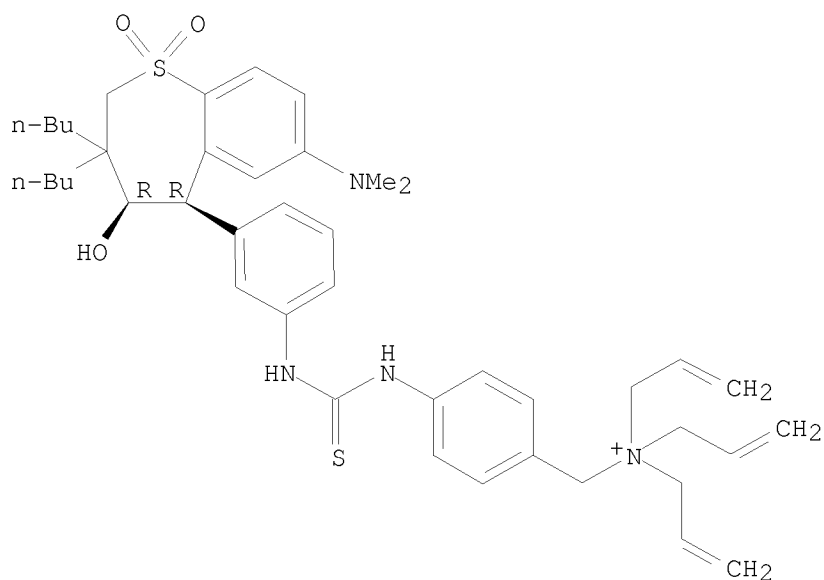
Relative stereochemistry.



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Relative stereochemistry.

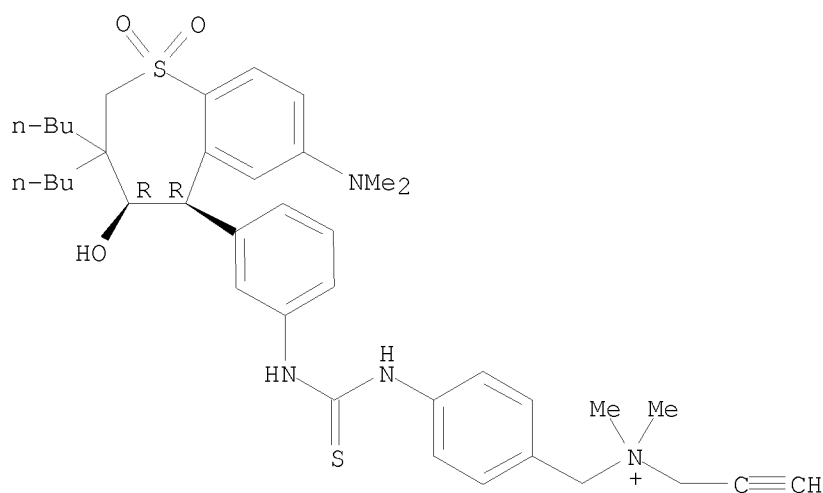
PAGE 1-A





RN 1234630-00-2 CAPLUS
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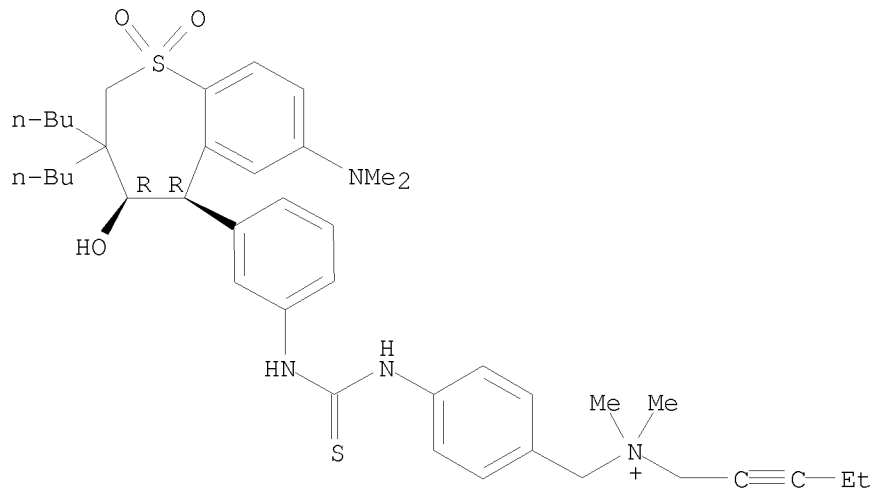
Relative stereochemistry.



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 CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-2-pentyn-1-yl-, bromide (1:1), rel- (CA INDEX NAME)

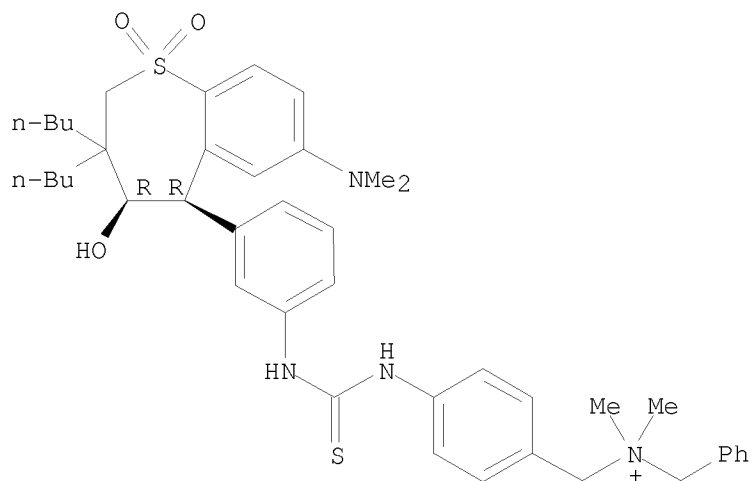
Relative stereochemistry.

10/598,458



RN 1234630-02-4 CAPLUS
CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

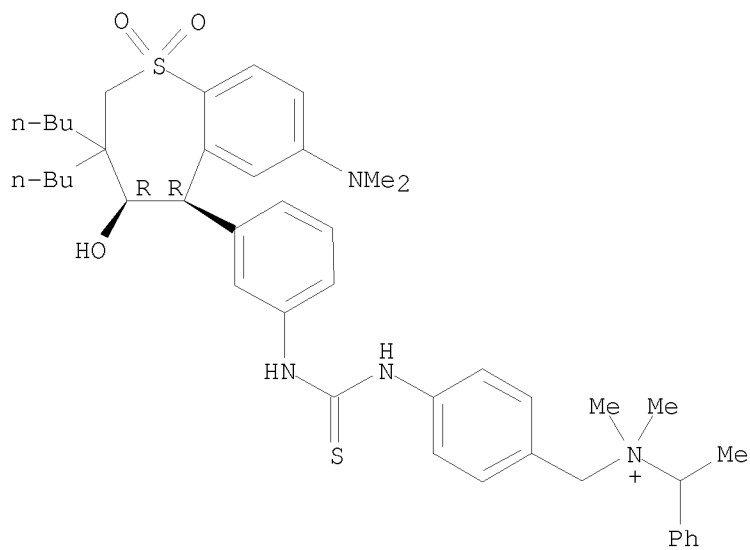


RN 1234630-03-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

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Relative stereochemistry.

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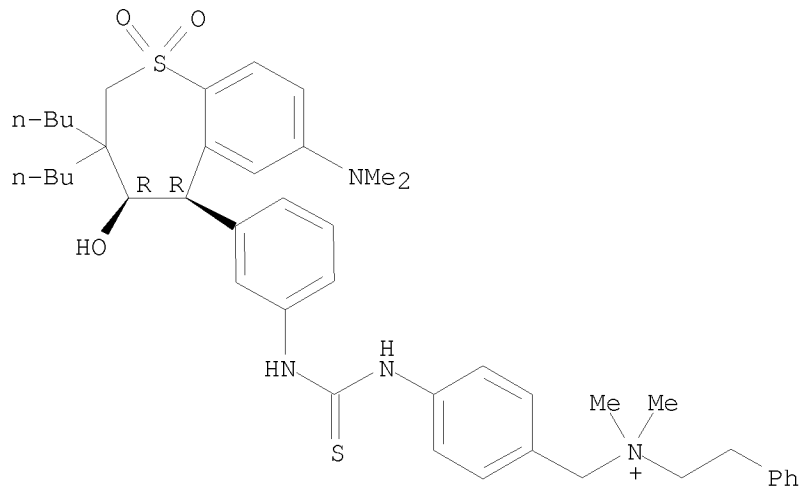
PAGE 2-A



RN 1234630-04-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

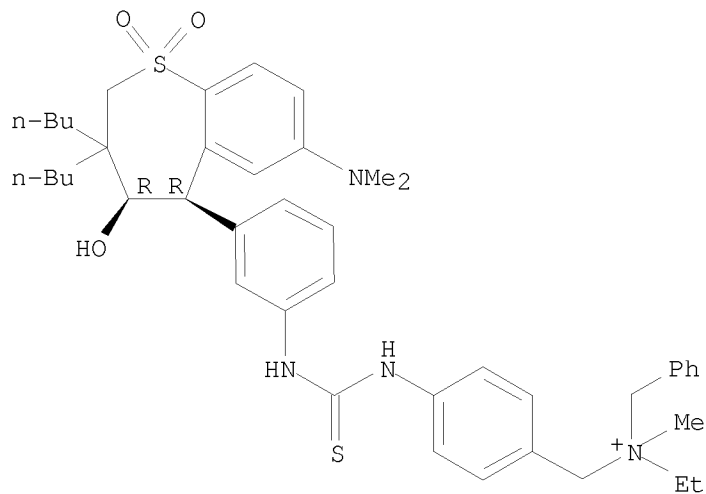
Relative stereochemistry.

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RN 1234630-05-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

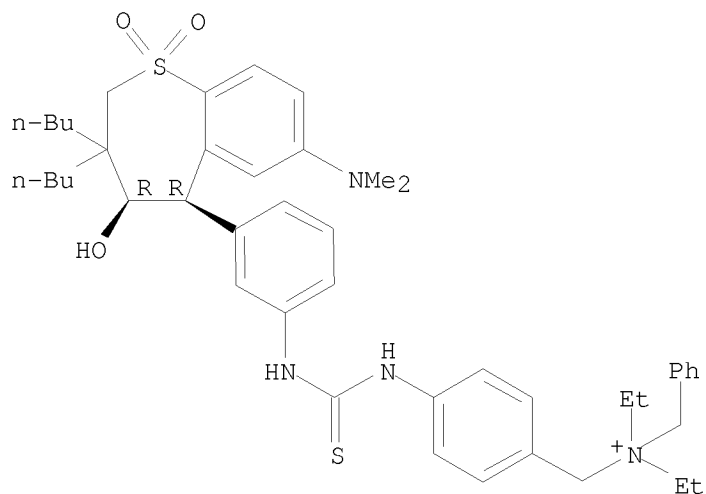


RN 1234630-06-8 CAPLUS
CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-diethyl-N-(phenylmethyl)-, bromide

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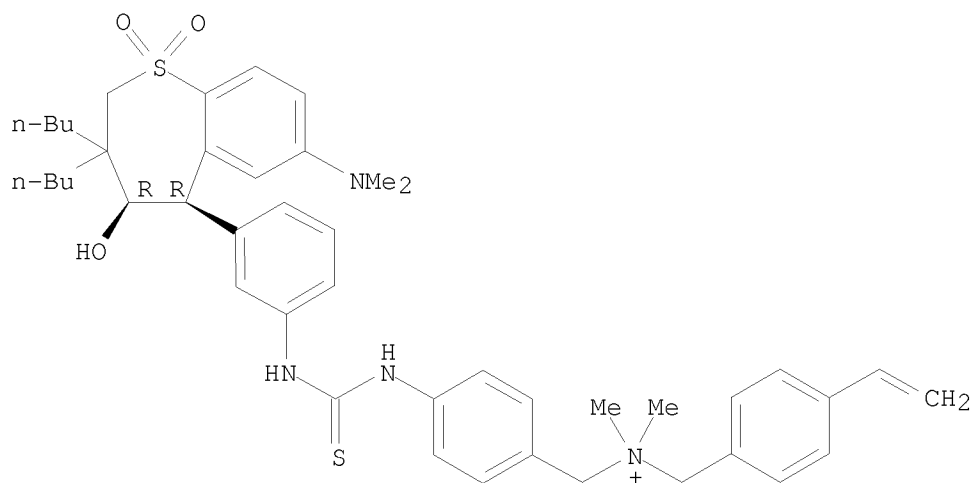
(1:1), rel- (CA INDEX NAME)

Relative stereochemistry.



RN 1234630-07-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

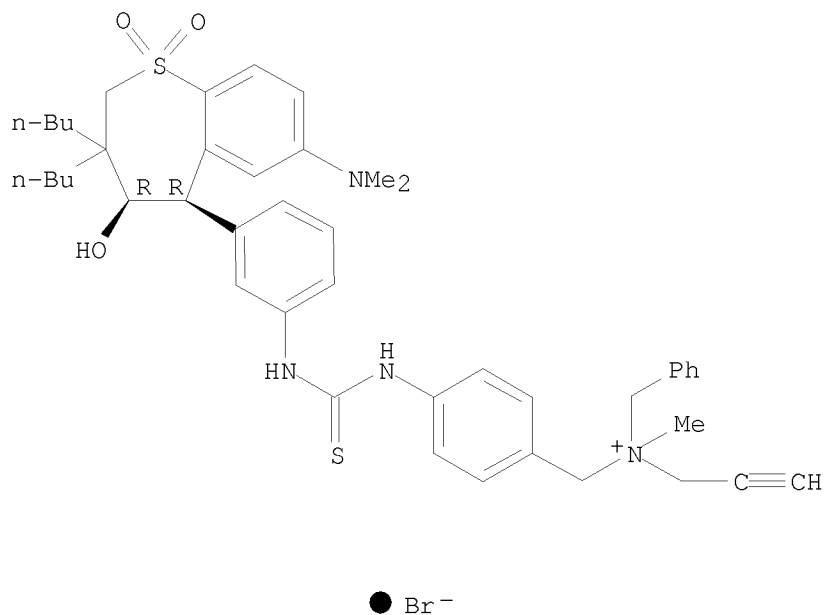


RN 1234630-08-0 CAPLUS

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CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-methyl-N-(phenylmethyl)-N-2-propyn-1-yl-, bromide (1:1), rel- (CA INDEX NAME)

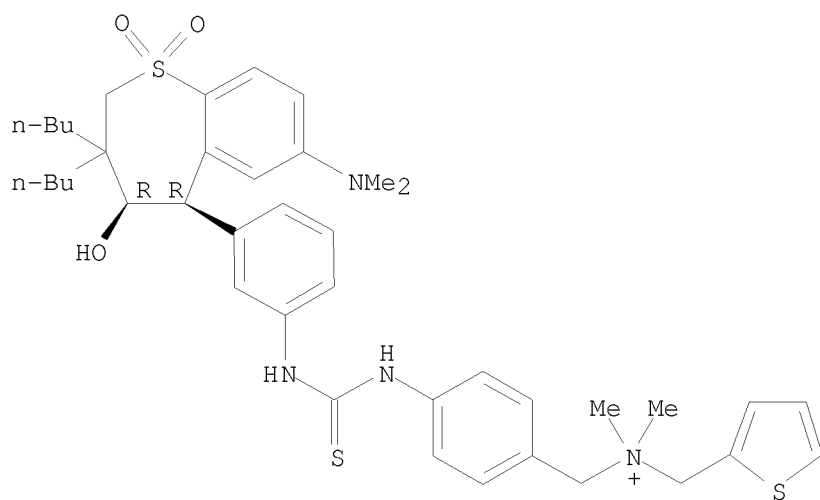
Relative stereochemistry.



RN 1234630-09-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

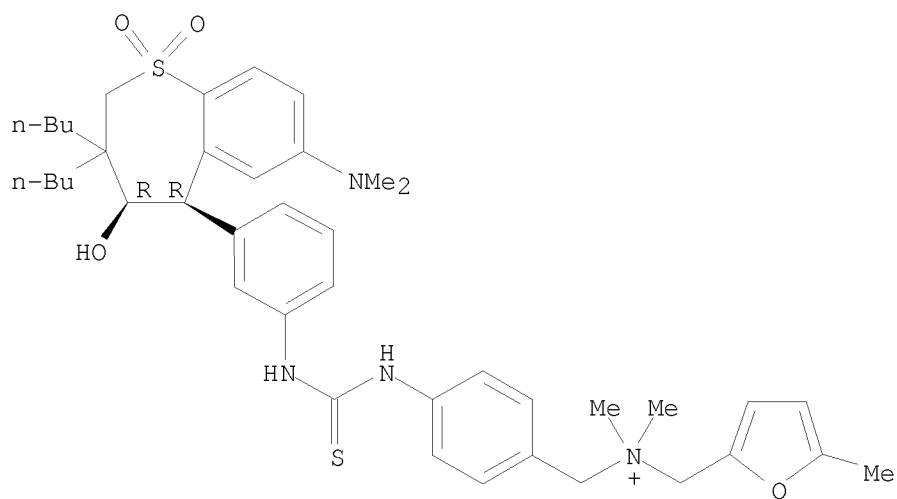
Relative stereochemistry.

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RN 1234630-10-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

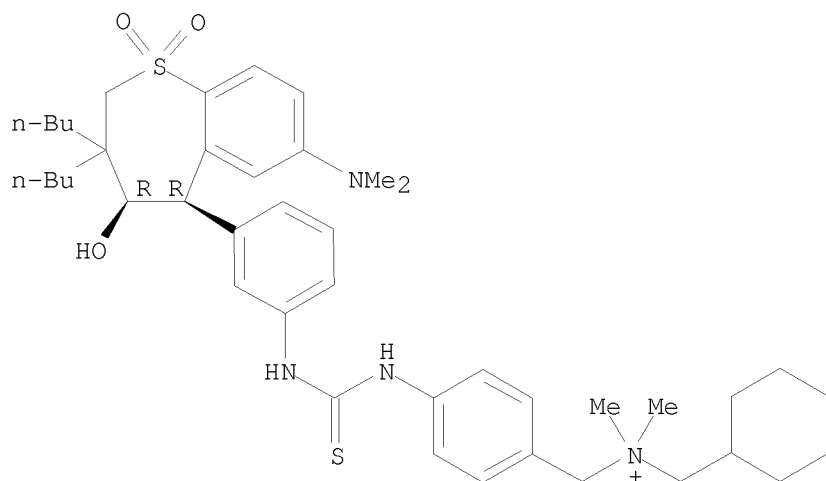
Relative stereochemistry.



RN 1234630-11-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

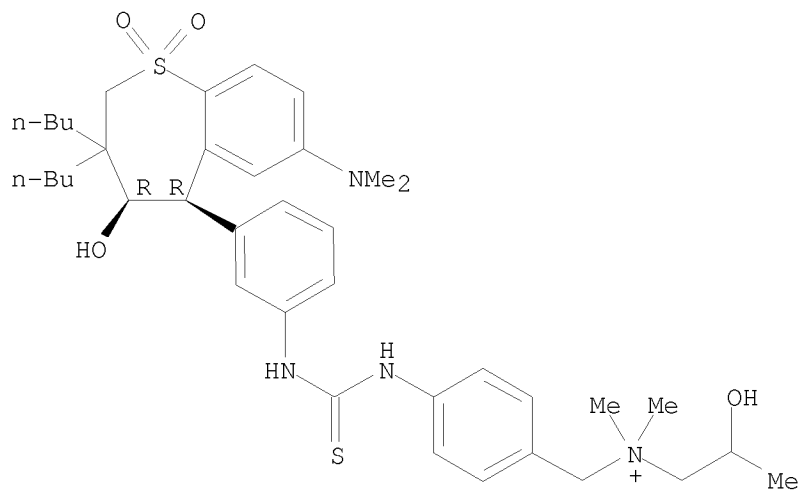
10/598,458

Relative stereochemistry.



RN 1234630-12-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

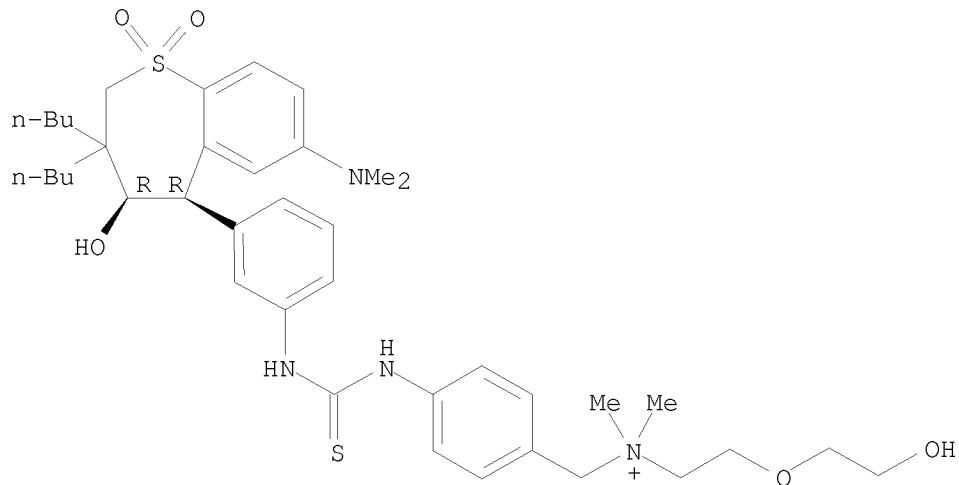
Relative stereochemistry.



RN 1234630-13-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

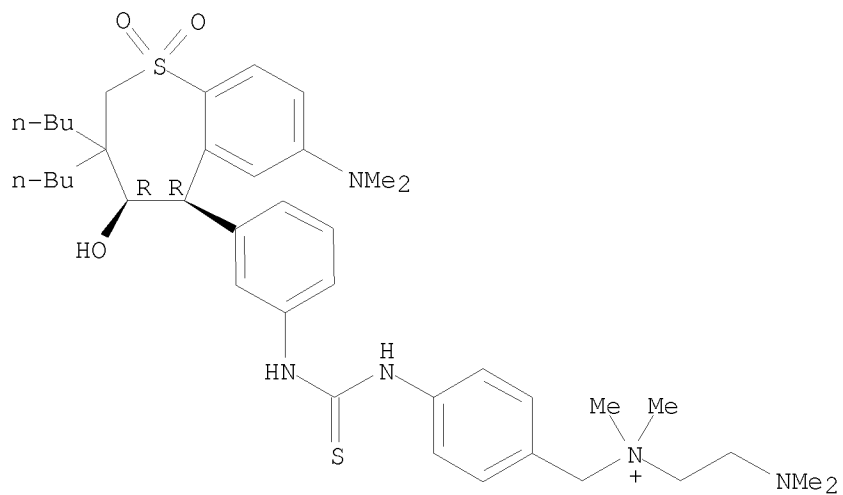
10/598,458



● Br⁻

RN 1234630-14-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

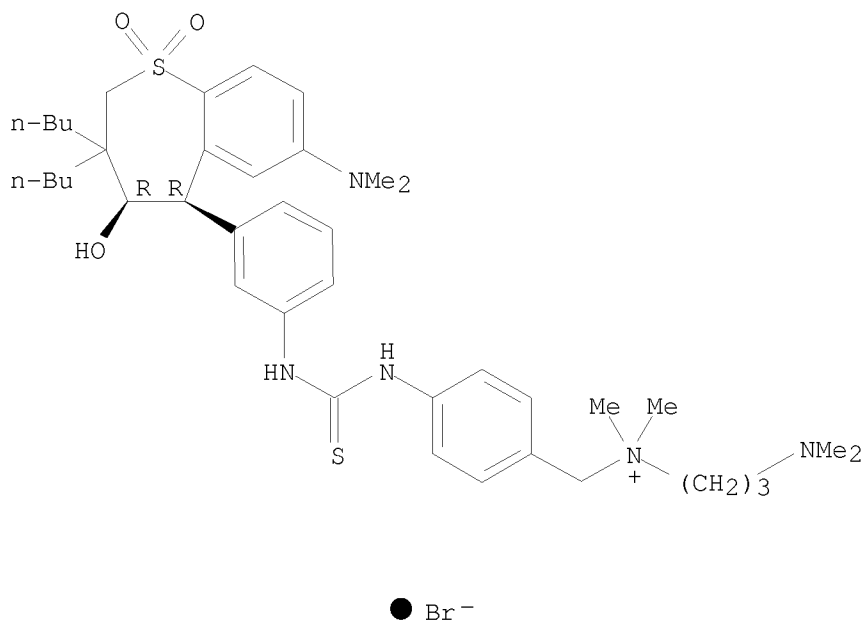


● Br⁻

RN 1234630-15-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

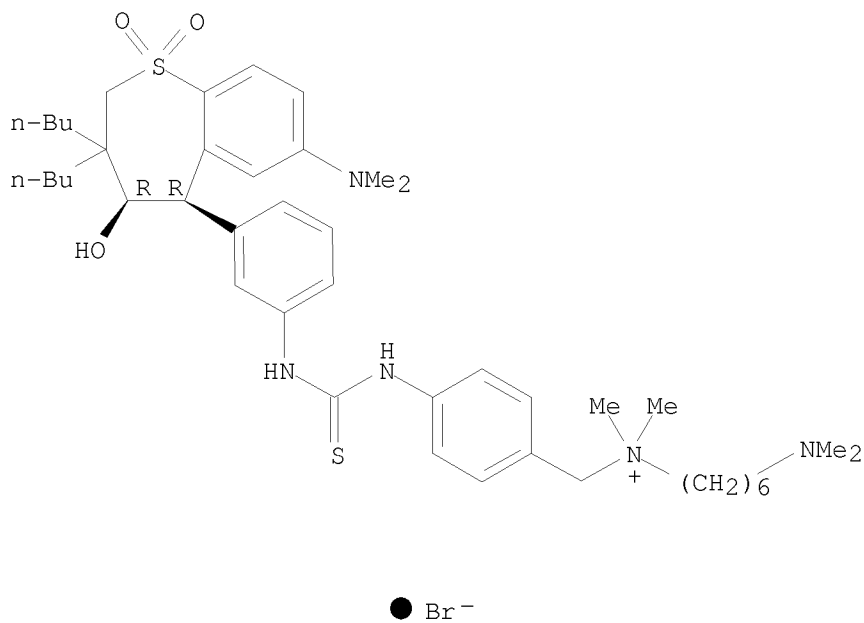
Relative stereochemistry.

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RN 1234630-16-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED
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Relative stereochemistry.

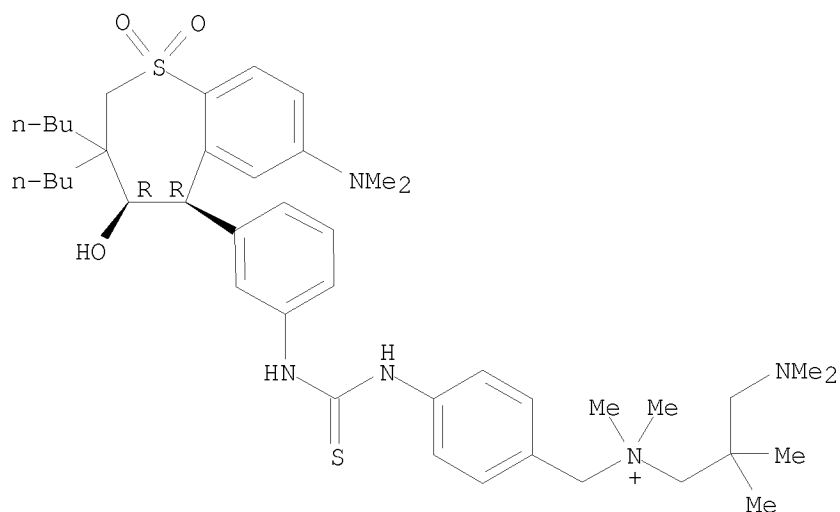


RN 1234630-17-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

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Relative stereochemistry.

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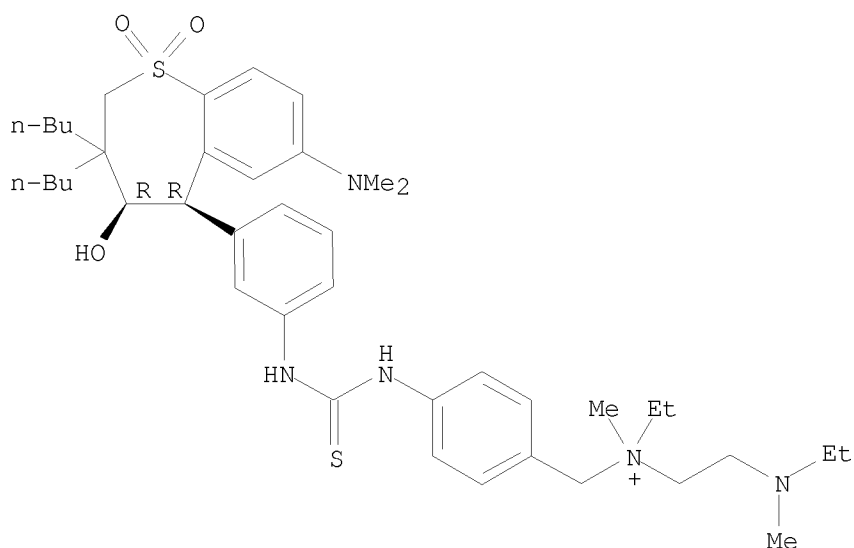
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RN 1234630-18-2 CAPLUS
CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-ethyl-N-[2-(ethylmethylamino)ethyl]-N-methyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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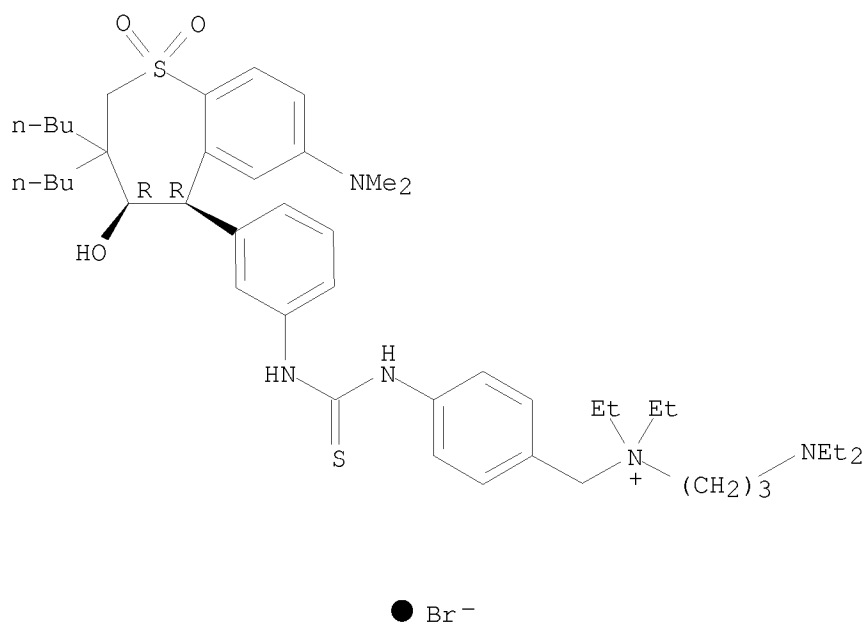


RN 1234630-19-3 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-[3-(diethylamino)propyl]-N,N-diethyl-, bromide (1:1), rel- (CA INDEX NAME)

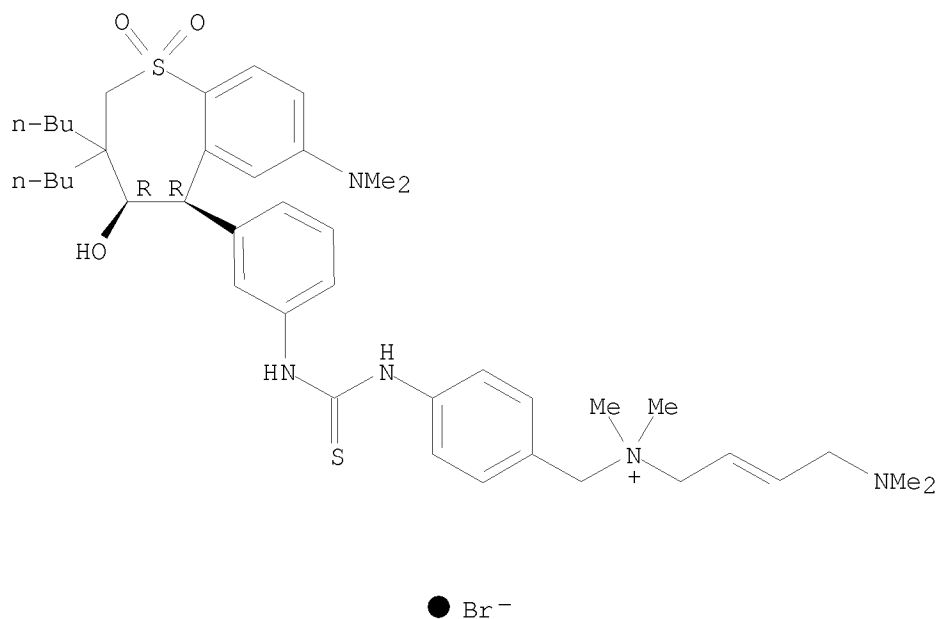
Relative stereochemistry.

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RN 1234630-20-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.
Double bond geometry unknown.



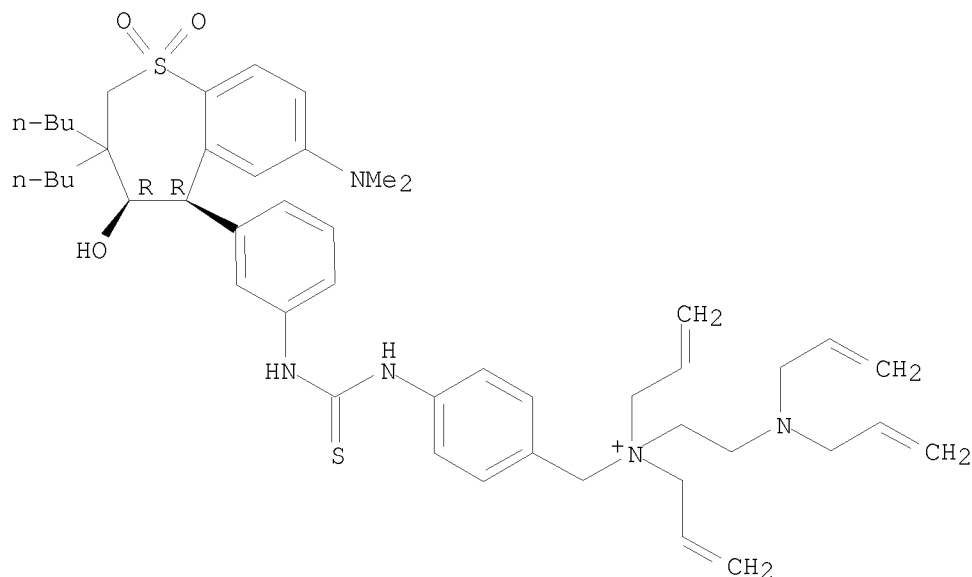
RN 1234630-21-7 CAPLUS
CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-

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2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-[2-(di-2-propen-1-ylamino)ethyl]-N,N-di-2-propen-1-yl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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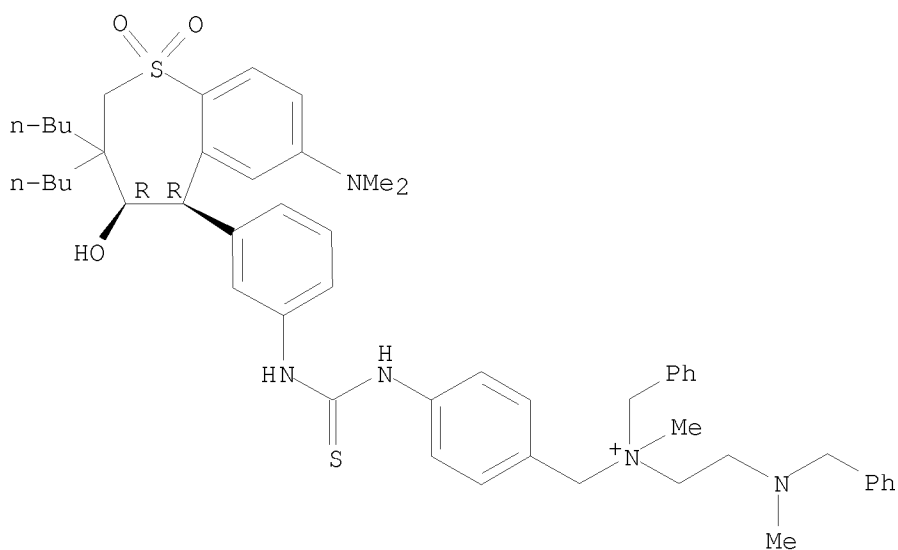


RN 1234630-22-8 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-methyl-N-[2-[methyl(phenylmethyl)amino]ethyl]-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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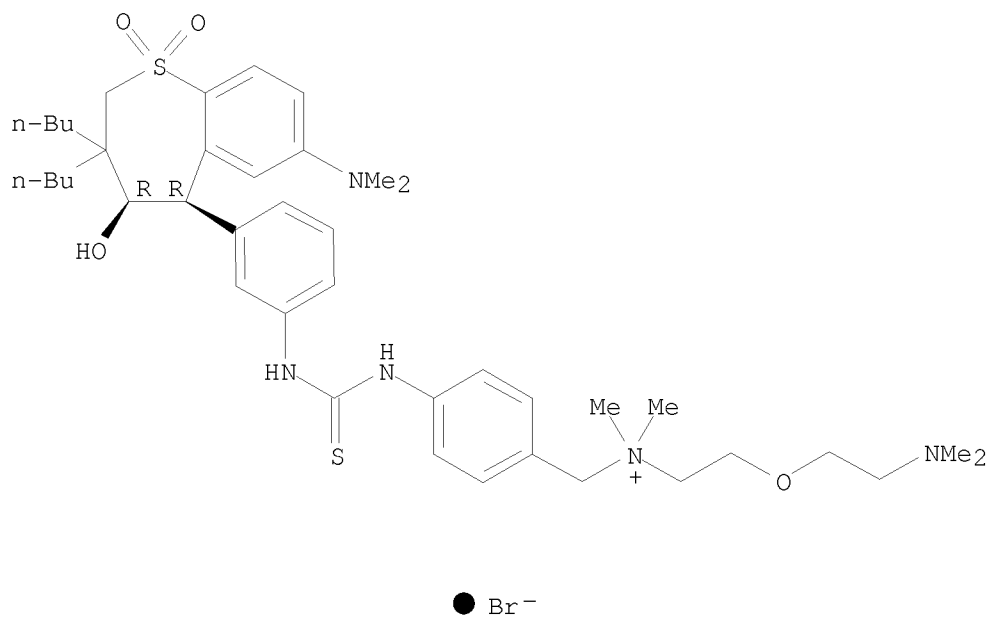


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RN 1234630-23-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

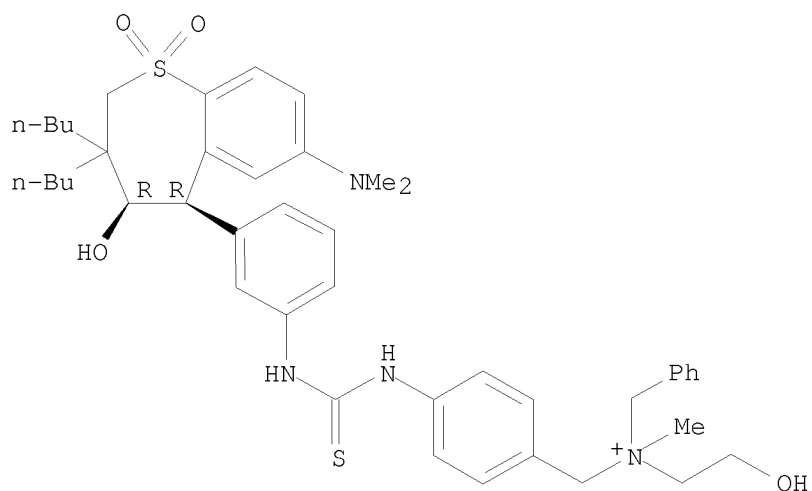


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RN 1234630-24-0 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N-(2-hydroxyethyl)-N-methyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

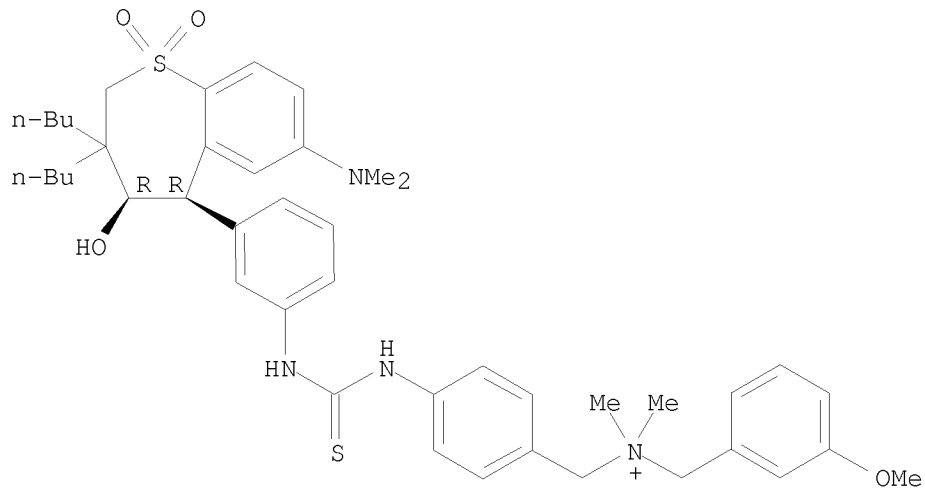


RN 1234630-25-1 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

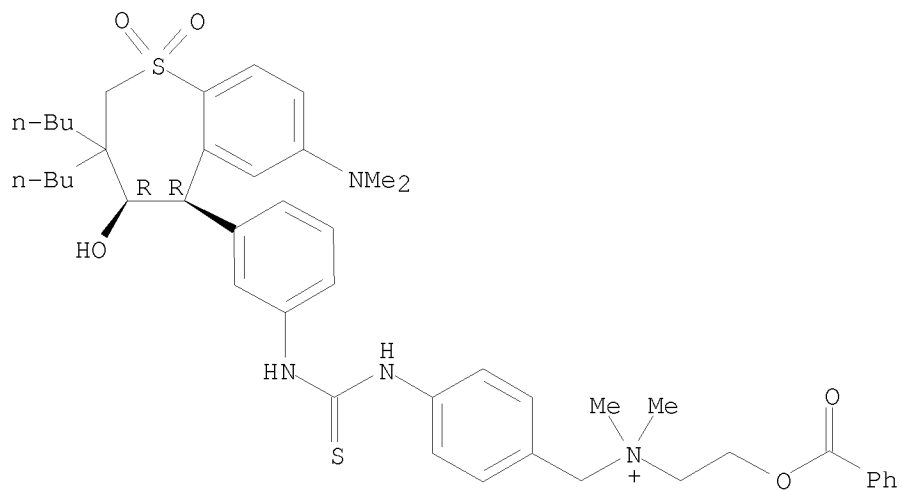
10/598,458



● Br⁻

RN 1234630-26-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

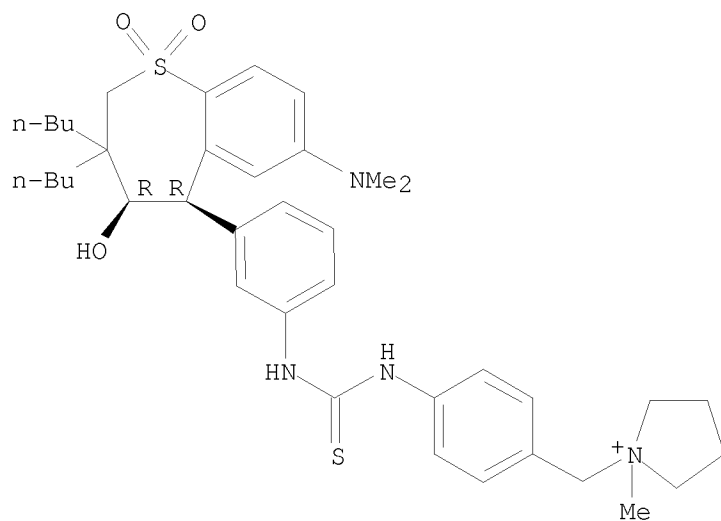


● Br⁻

RN 1234630-27-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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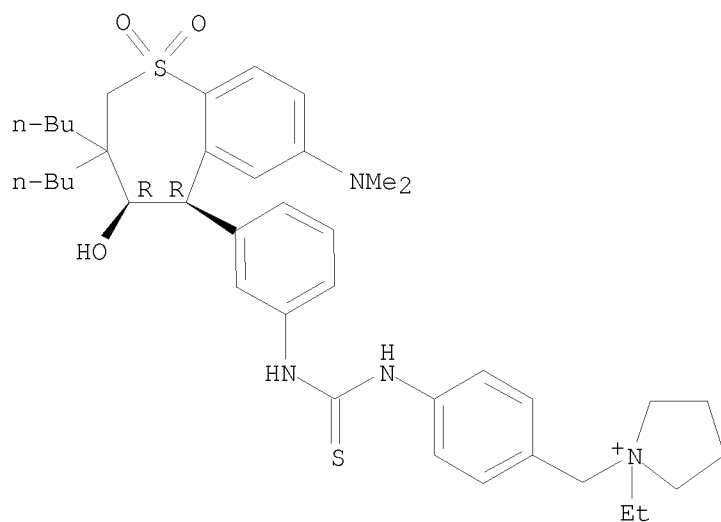
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RN 1234630-28-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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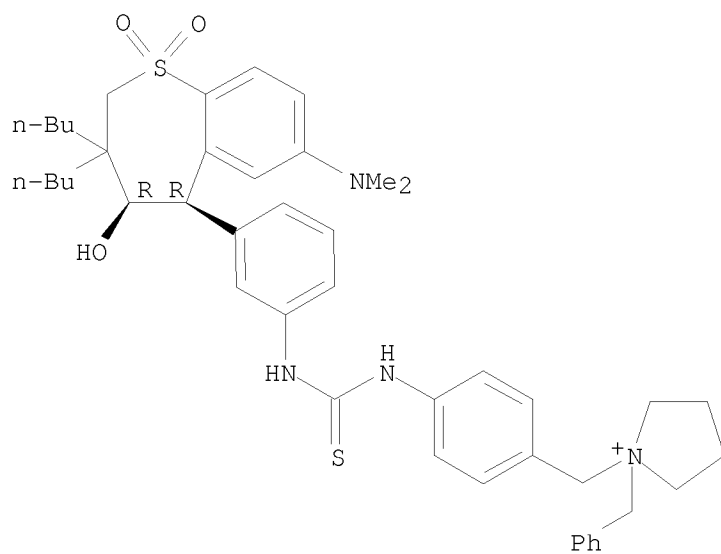
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RN 1234630-29-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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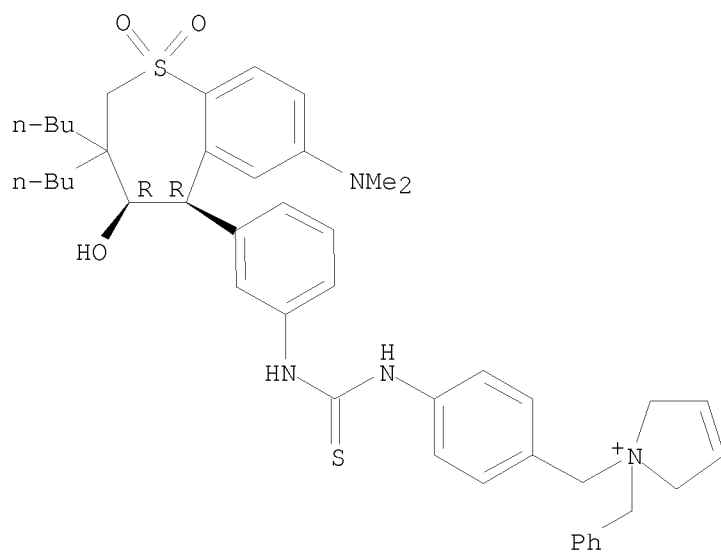
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RN 1234630-30-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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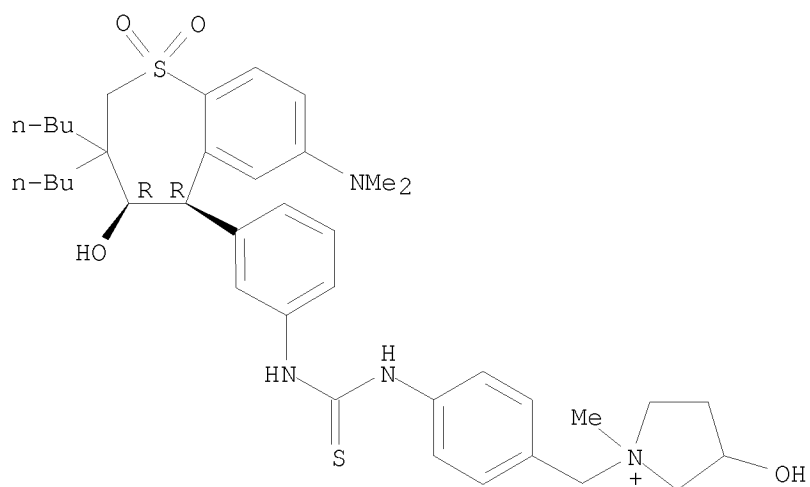
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RN 1234630-31-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

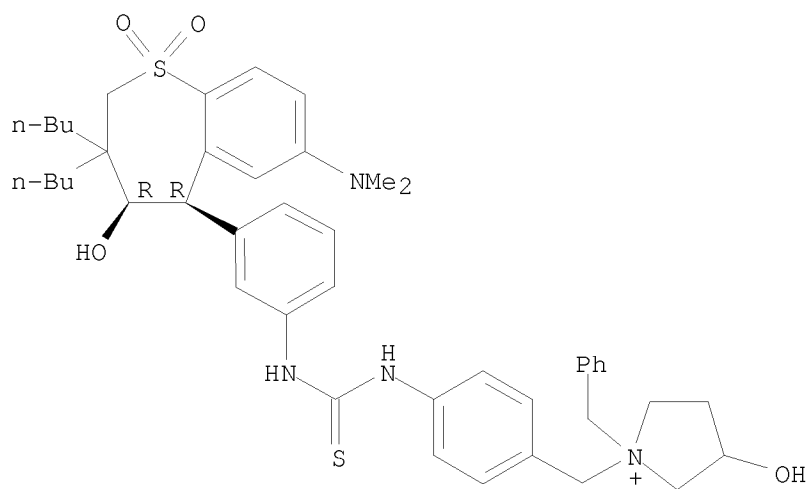
Relative stereochemistry.

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RN 1234630-32-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

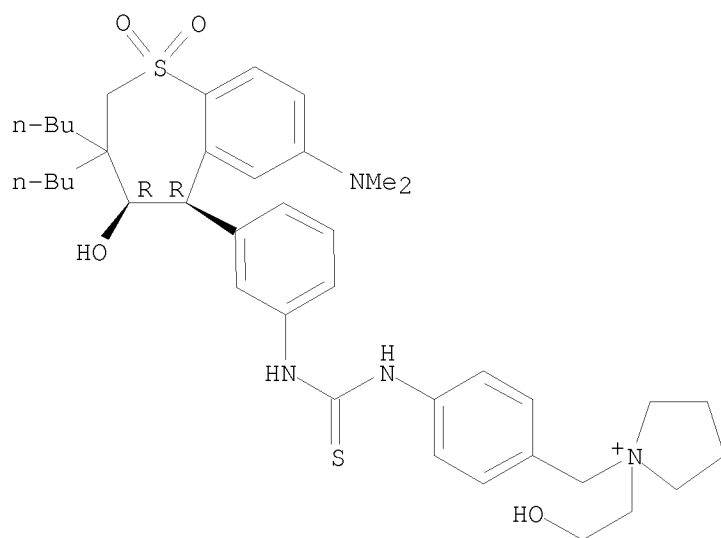


RN 1234630-33-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

10/598,458

Relative stereochemistry.

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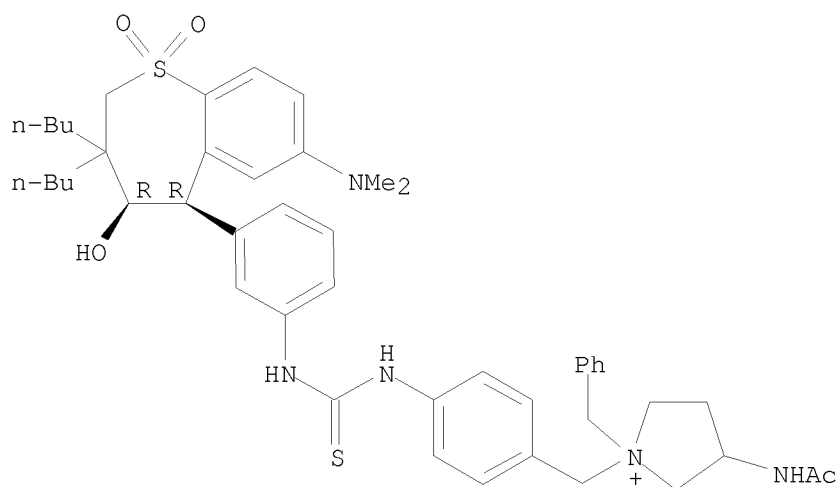
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RN 1234630-34-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

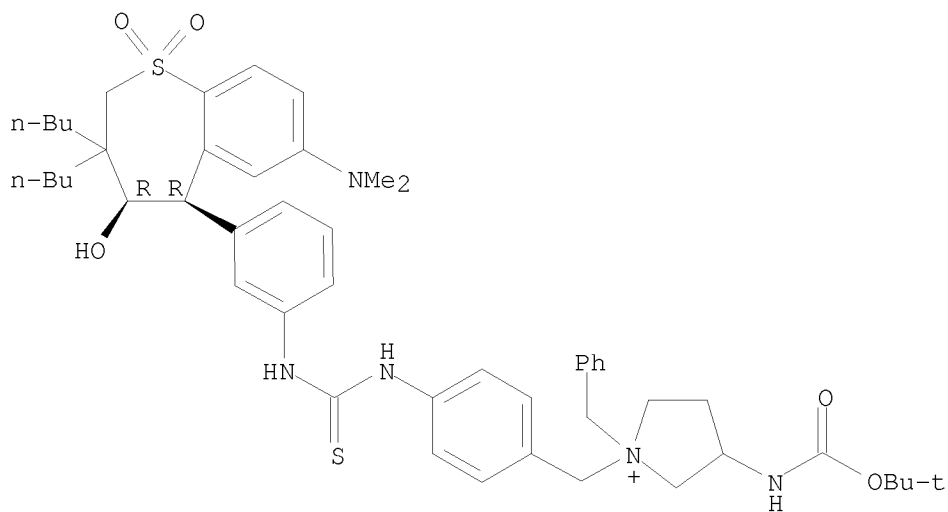
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RN 1234630-35-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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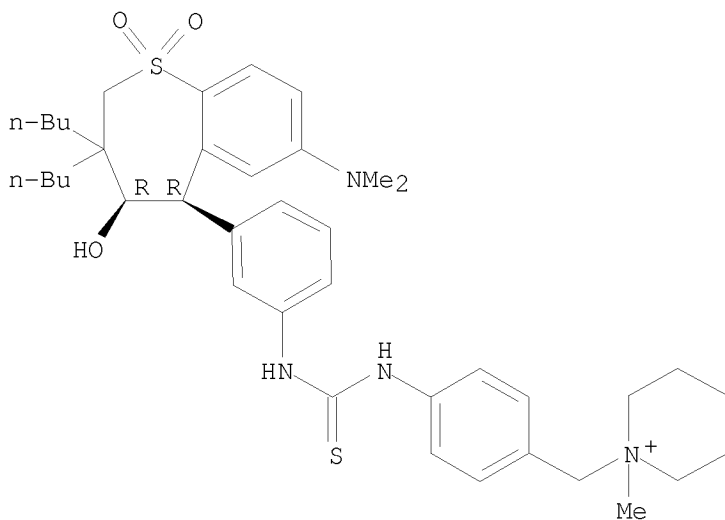


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RN 1234630-36-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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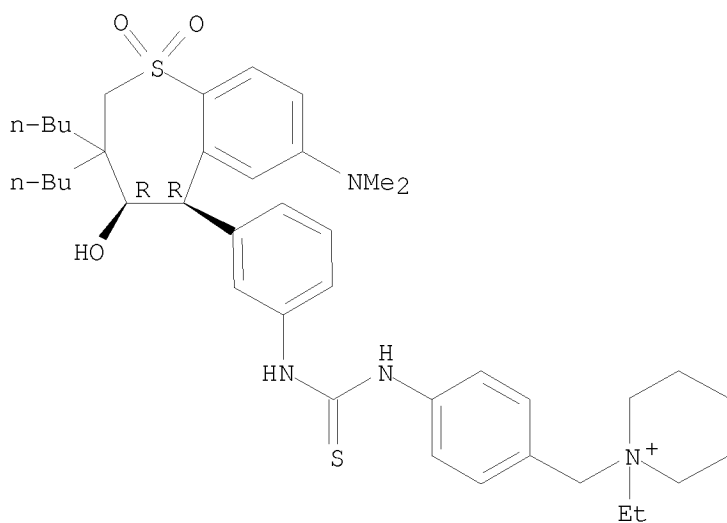
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RN 1234630-37-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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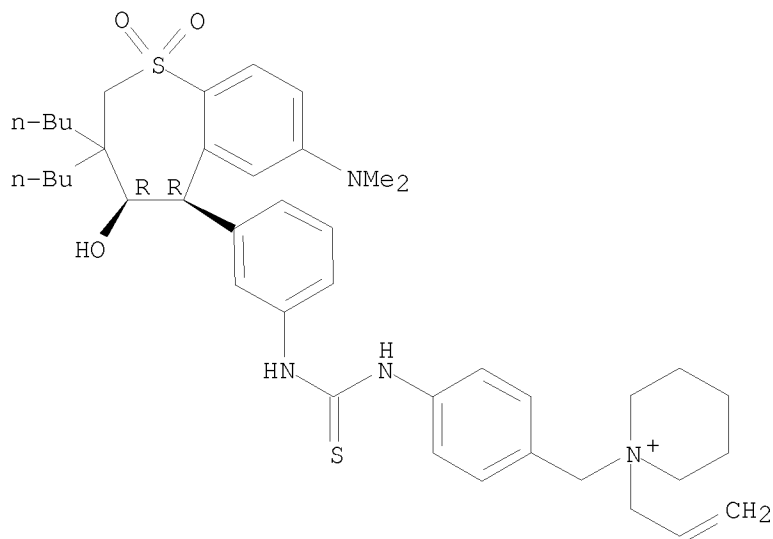
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RN 1234630-38-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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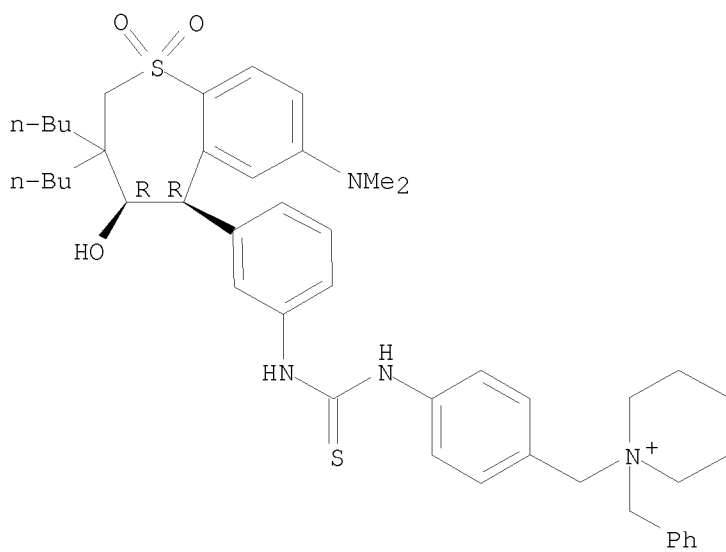
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RN 1234630-39-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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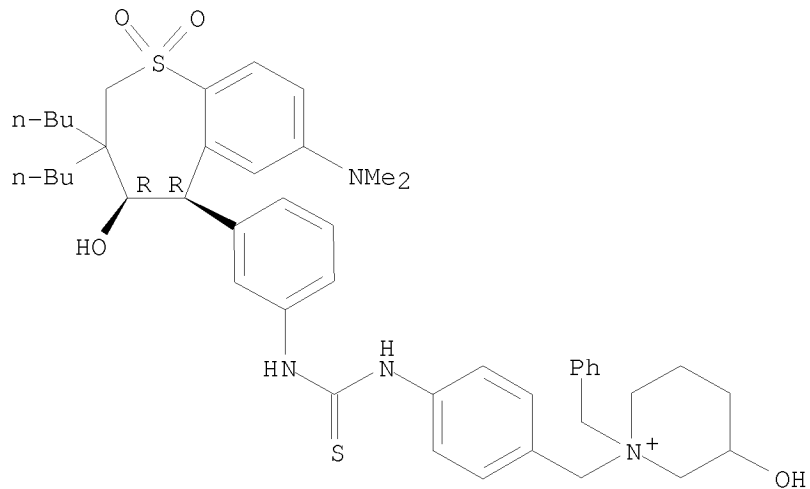
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RN 1234630-40-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

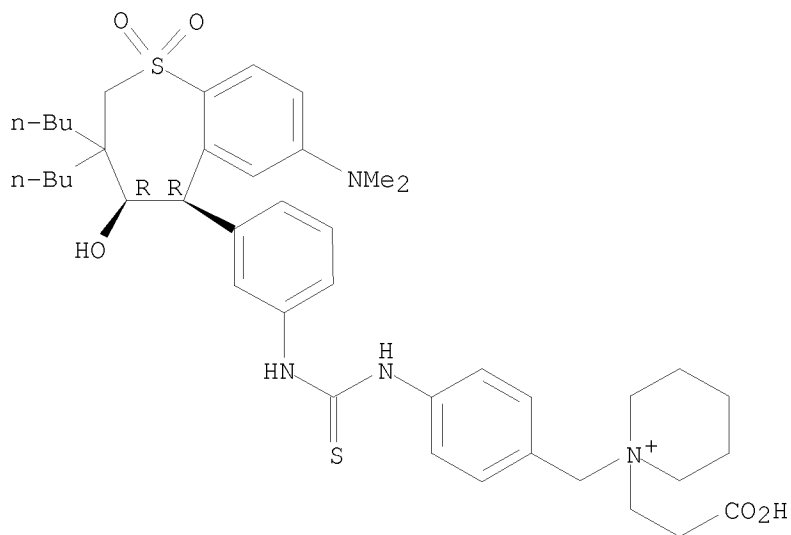
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RN 1234630-41-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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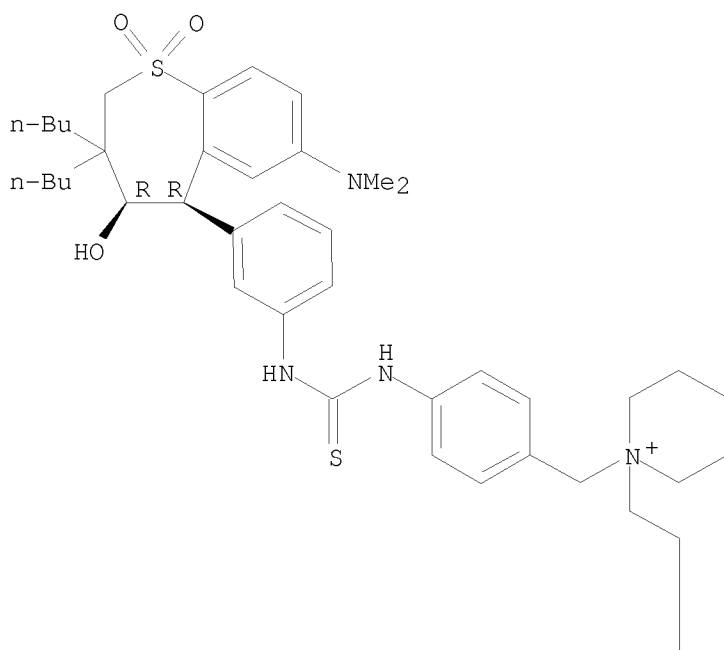


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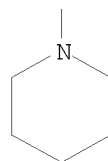
RN 1234630-42-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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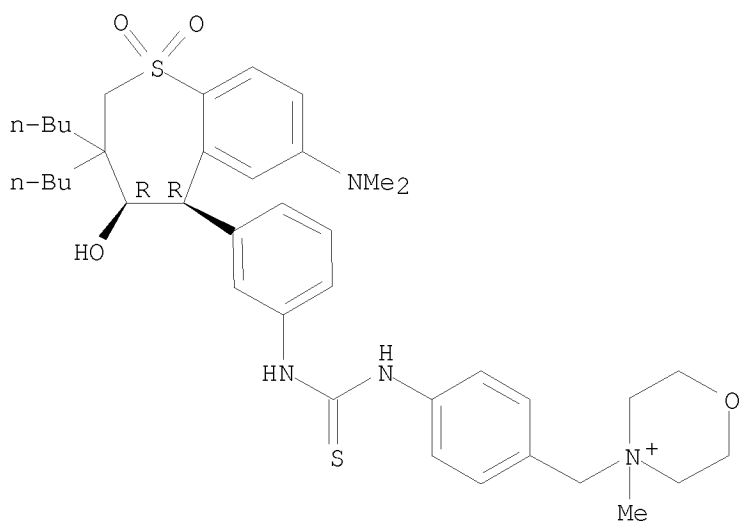
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RN 1234630-43-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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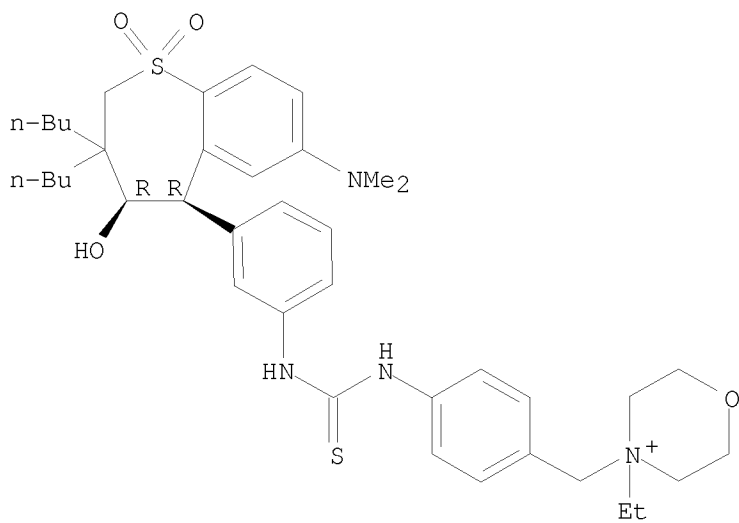
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RN 1234630-44-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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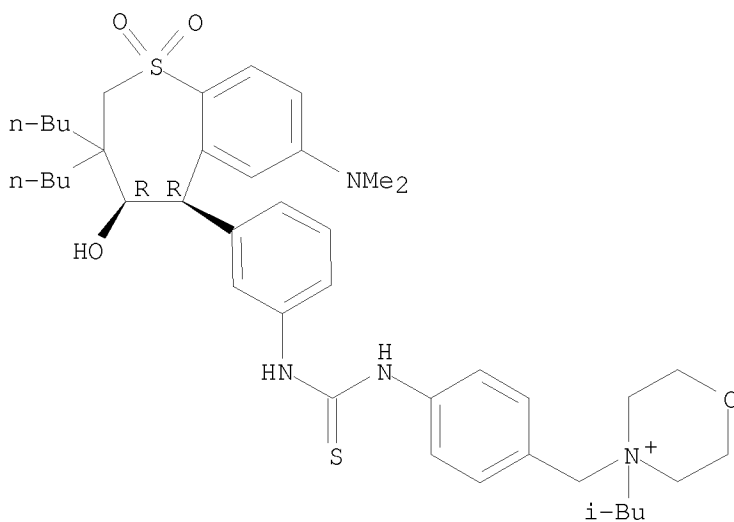
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RN 1234630-45-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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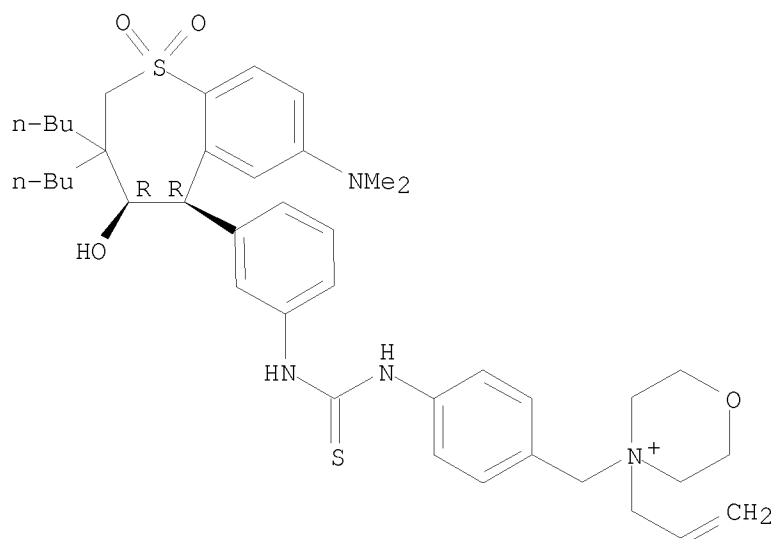
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RN 1234630-46-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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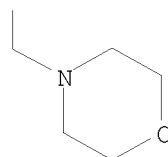
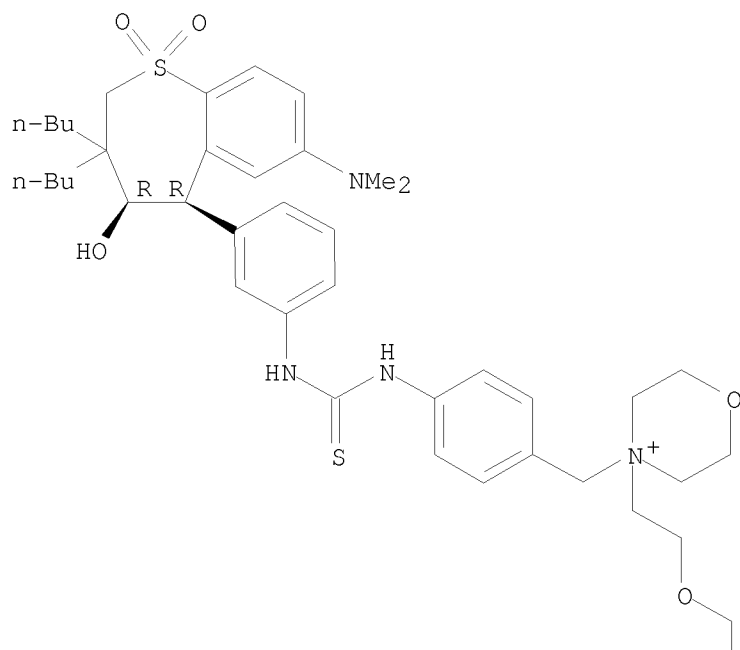


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RN 1234630-47-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

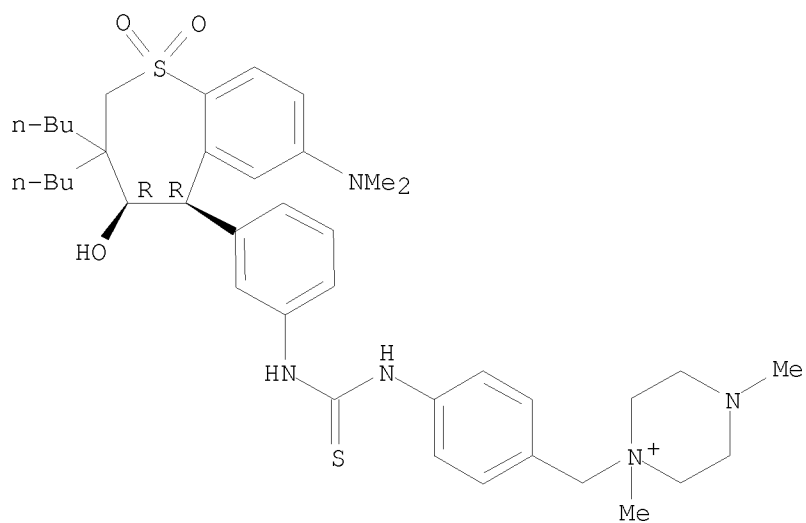


● Br⁻

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RN      1234630-48-8  CAPLUS
CN      INDEX NAME NOT YET ASSIGNED
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Relative stereochemistry.

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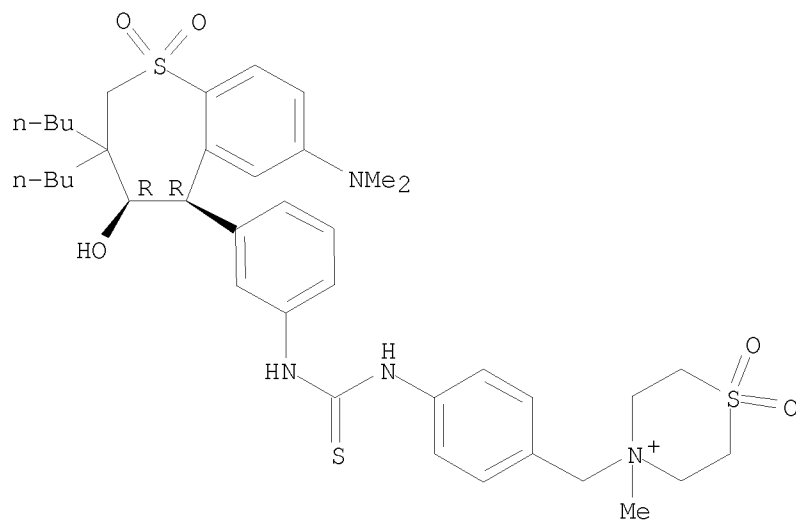
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RN 1234630-49-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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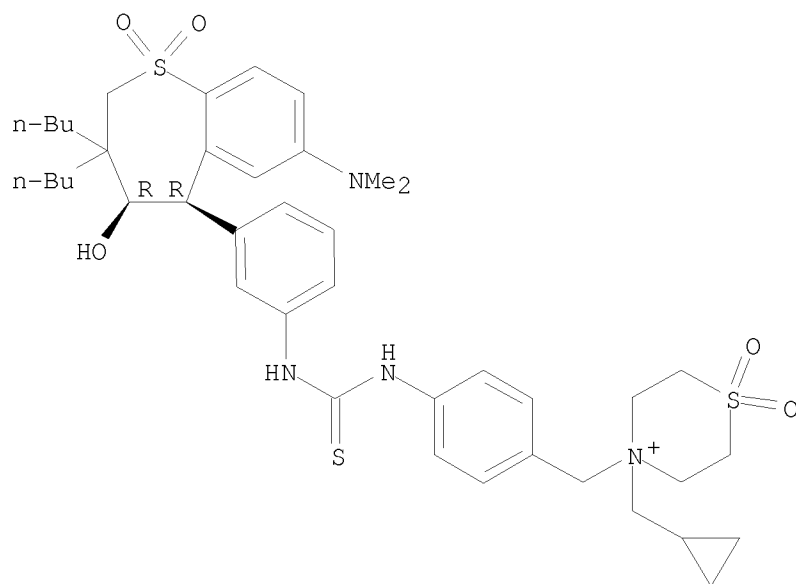
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RN 1234630-50-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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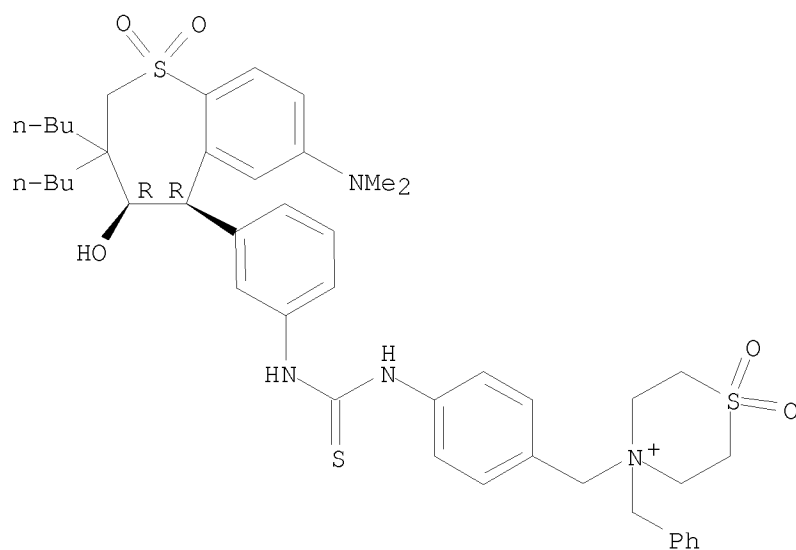
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RN 1234630-51-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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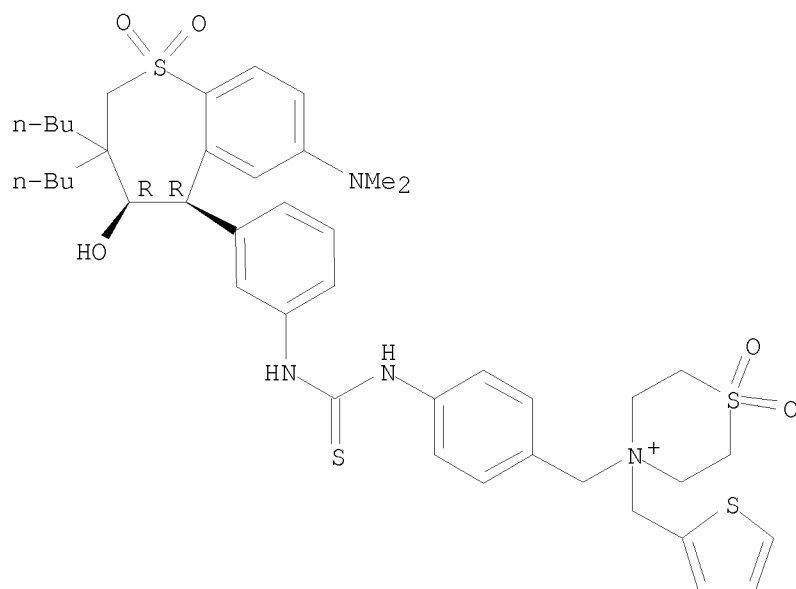


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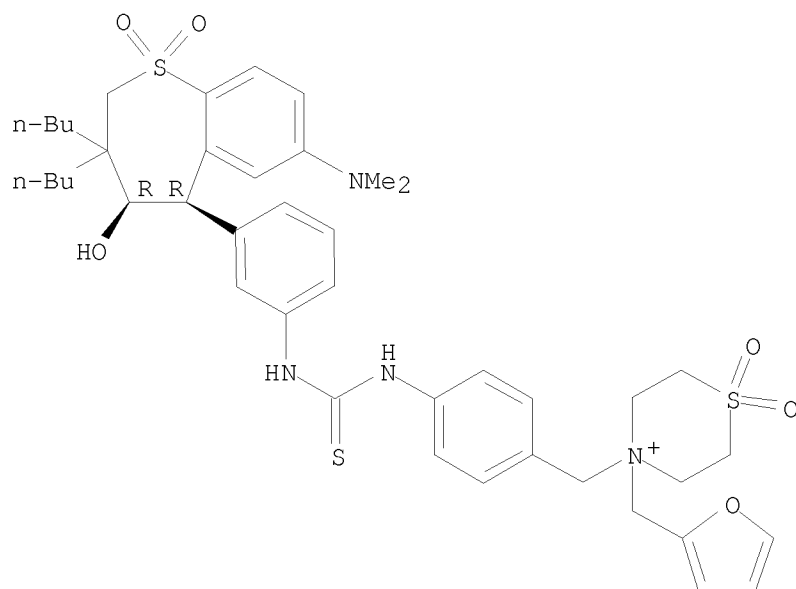
RN 1234630-52-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.



RN 1234630-53-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

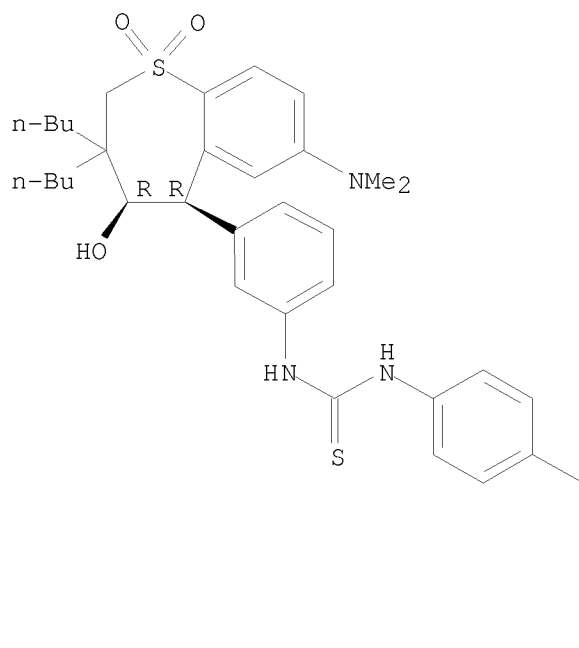
Relative stereochemistry.



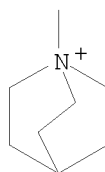
RN 1234630-54-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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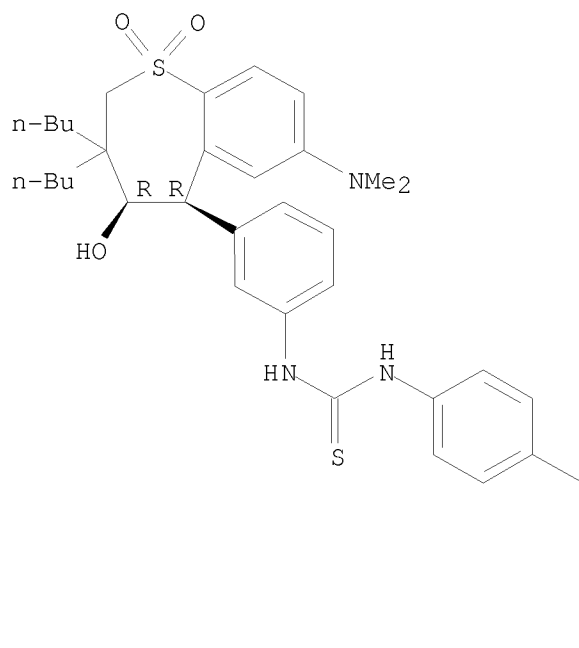
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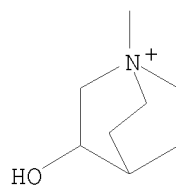
RN 1234630-55-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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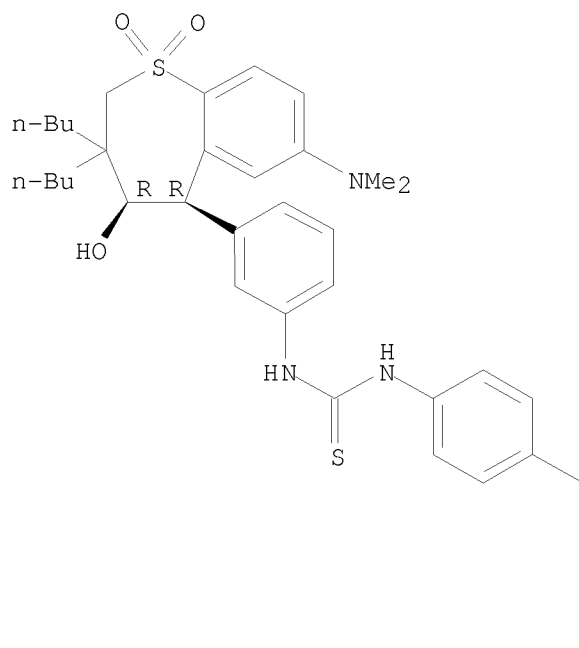
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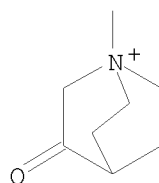
RN 1234630-56-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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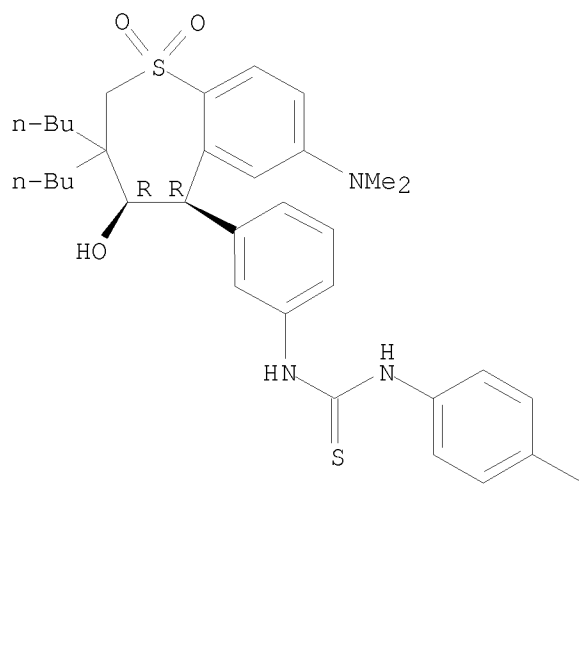
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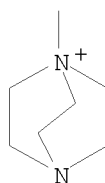
RN 1234630-57-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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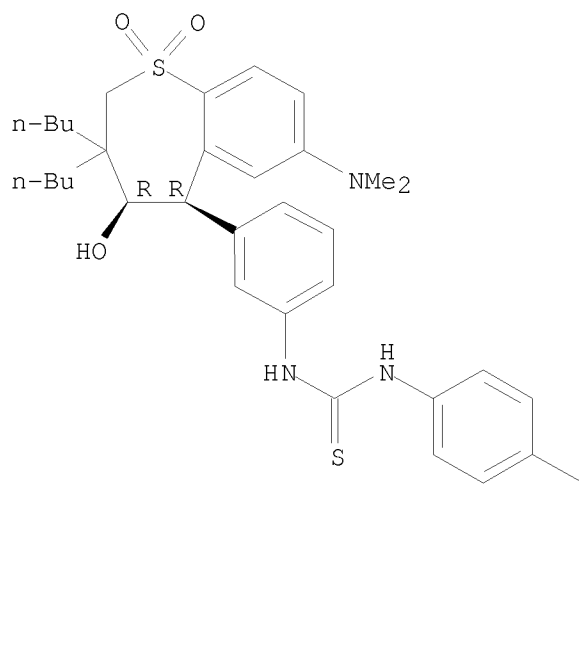
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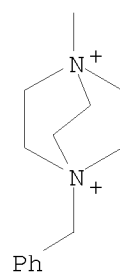
RN 1234630-58-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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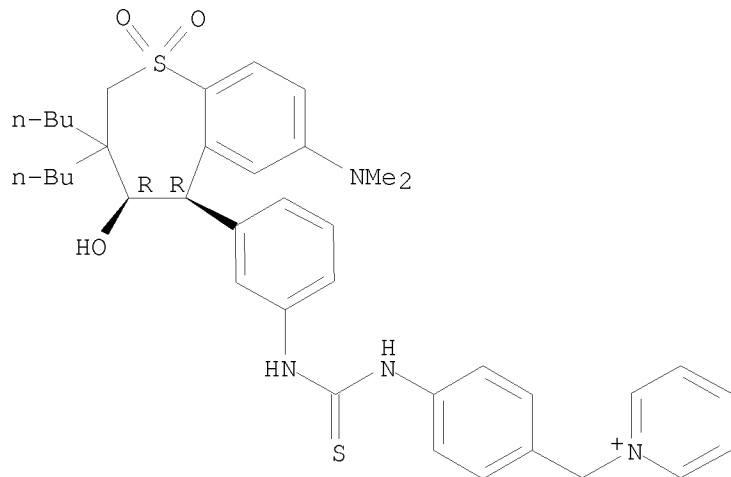


● 2 Br⁻

RN 1234630-59-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

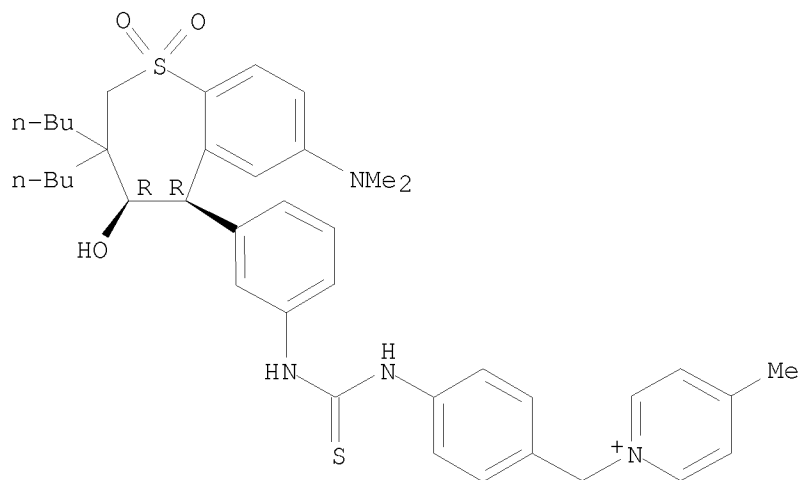
Relative stereochemistry.

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RN 1234630-60-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

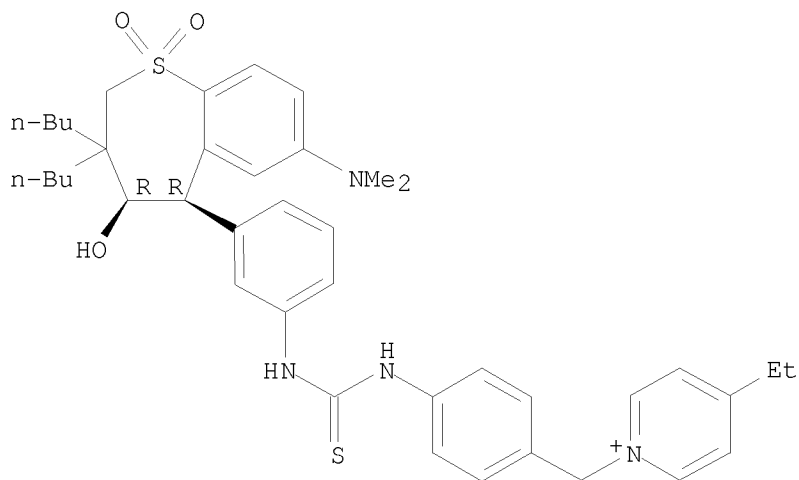
Relative stereochemistry.



RN 1234630-61-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

10/598,458

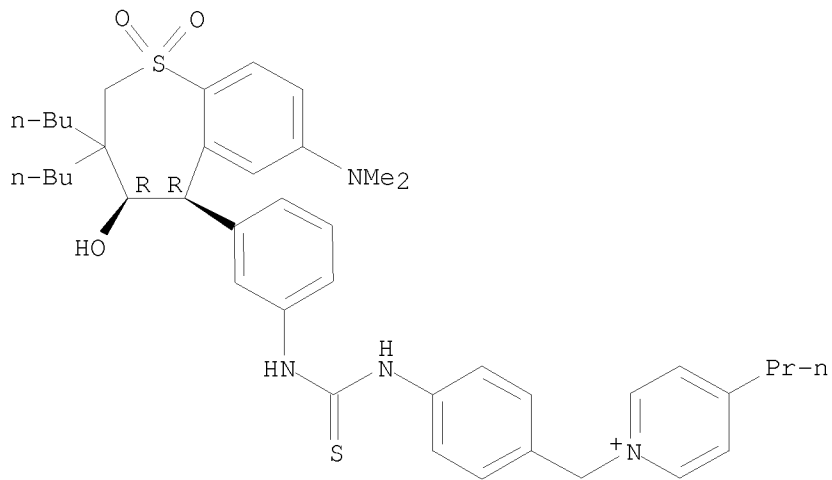


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RN      1234630-62-6  CAPLUS
CN      INDEX NAME NOT YET ASSIGNED

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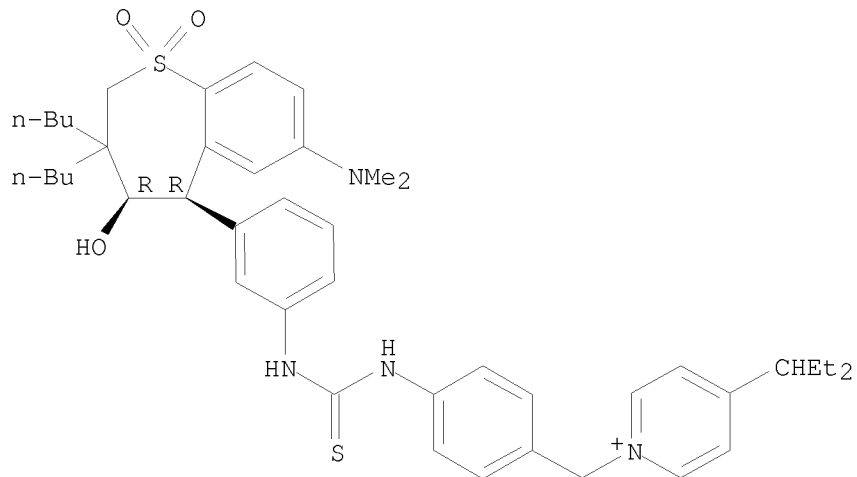
Relative stereochemistry.



RN 1234630-63-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

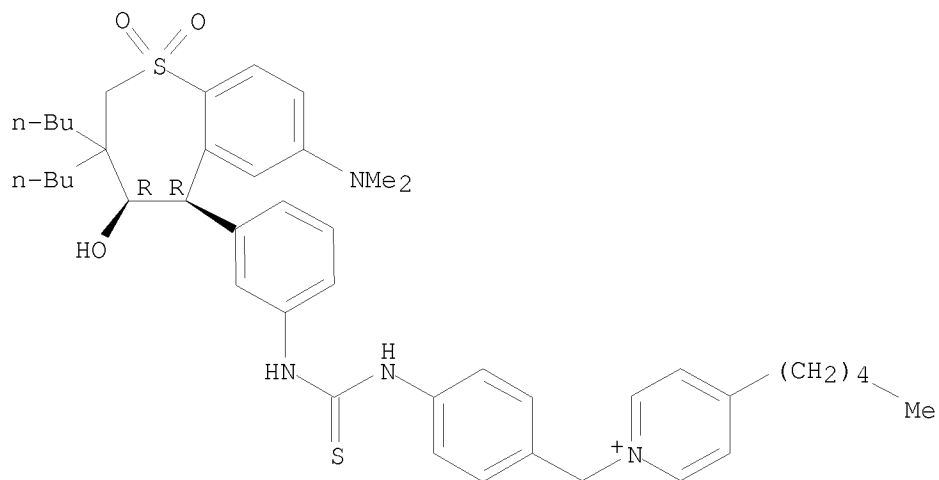
Relative stereochemistry.

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RN 1234630-64-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

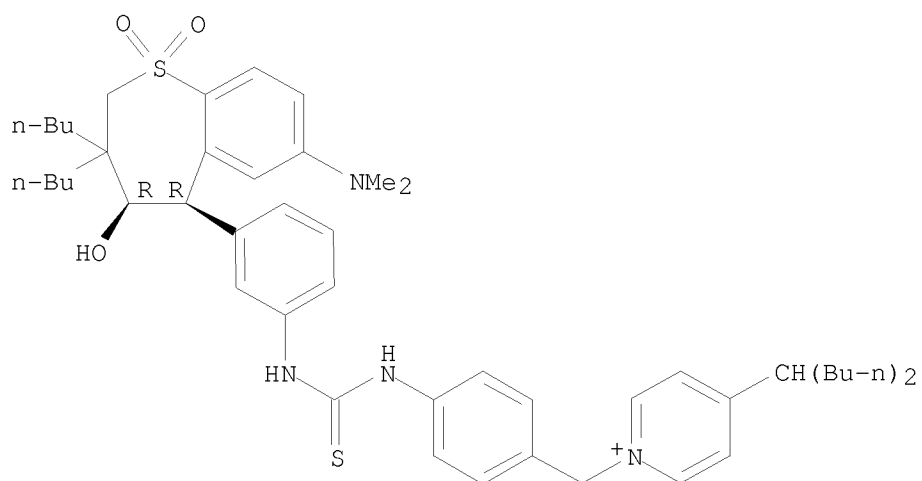
Relative stereochemistry.



RN 1234630-65-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

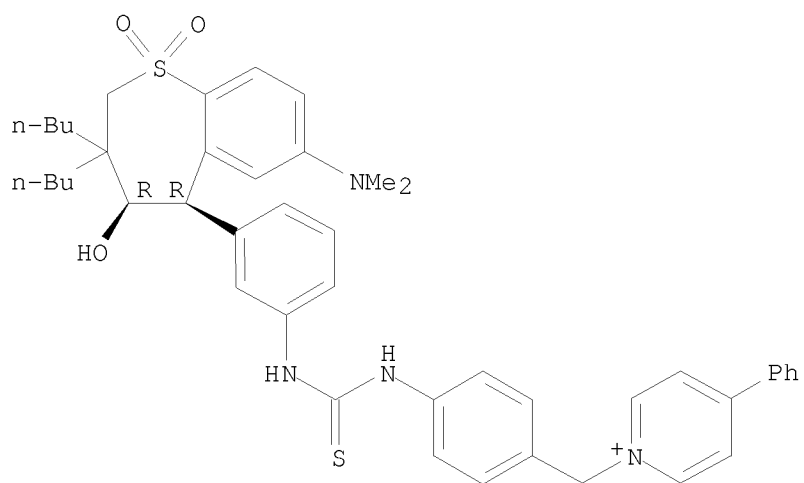
Relative stereochemistry.

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RN 1234630-66-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

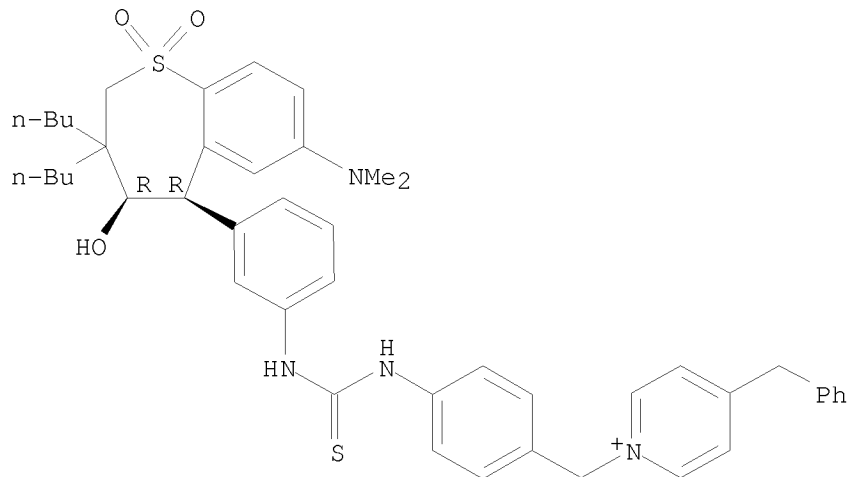
Relative stereochemistry.



RN 1234630-67-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

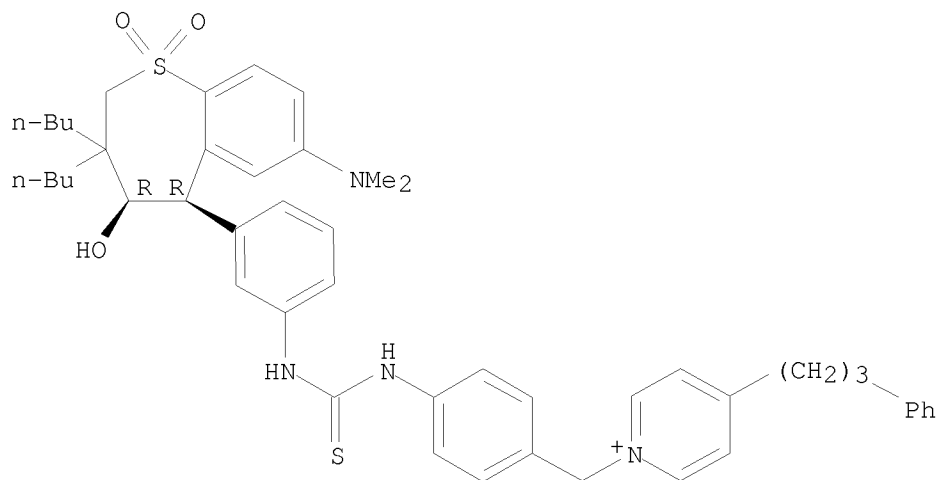
Relative stereochemistry.

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RN 1234630-68-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

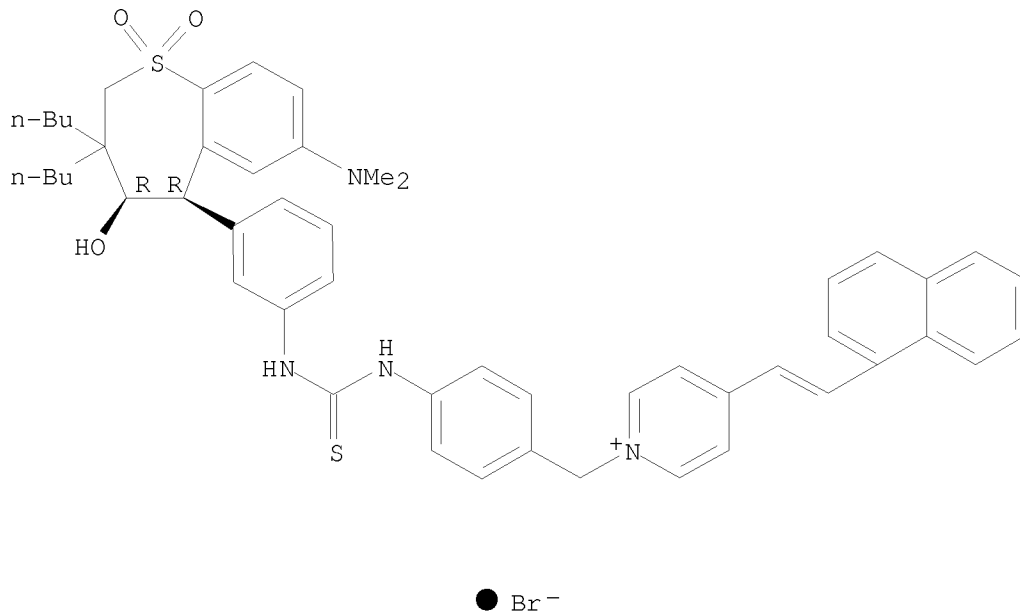
Relative stereochemistry.



RN 1234630-69-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

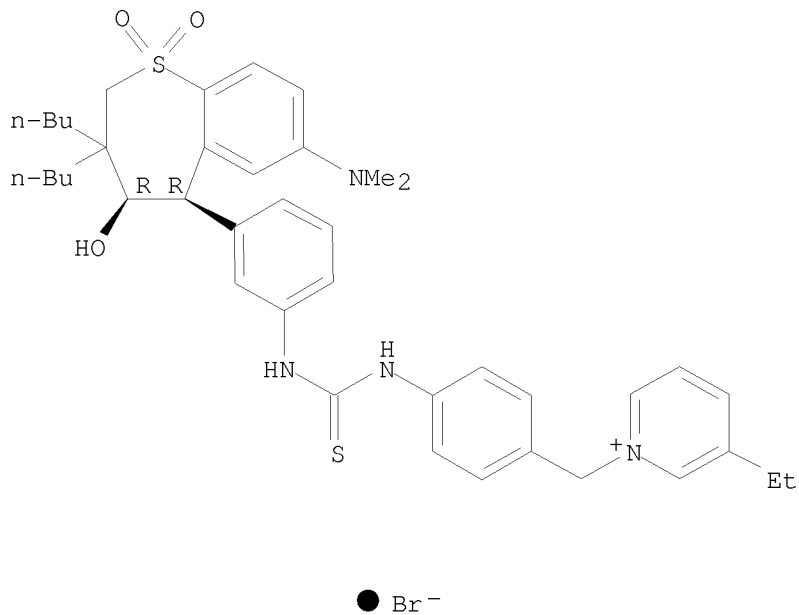
Relative stereochemistry.
Double bond geometry unknown.

10/598,458



RN 1234630-70-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.



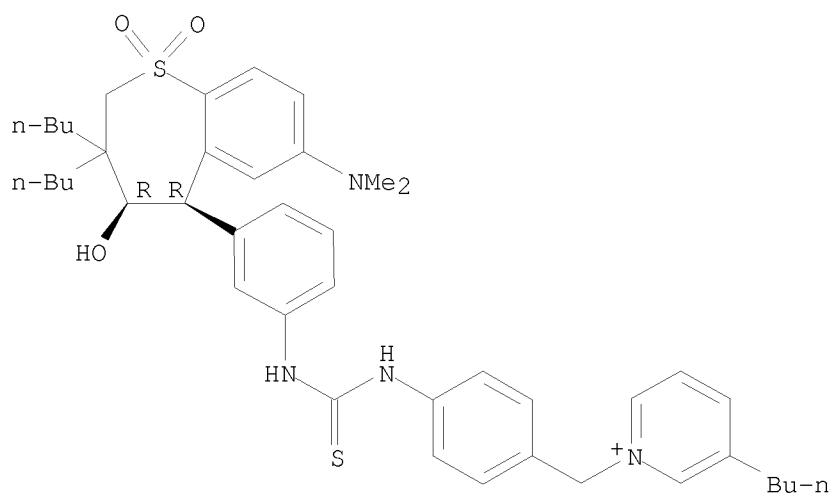
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RN      1234630-71-7  CAPLUS
CN      INDEX NAME NOT YET ASSIGNED

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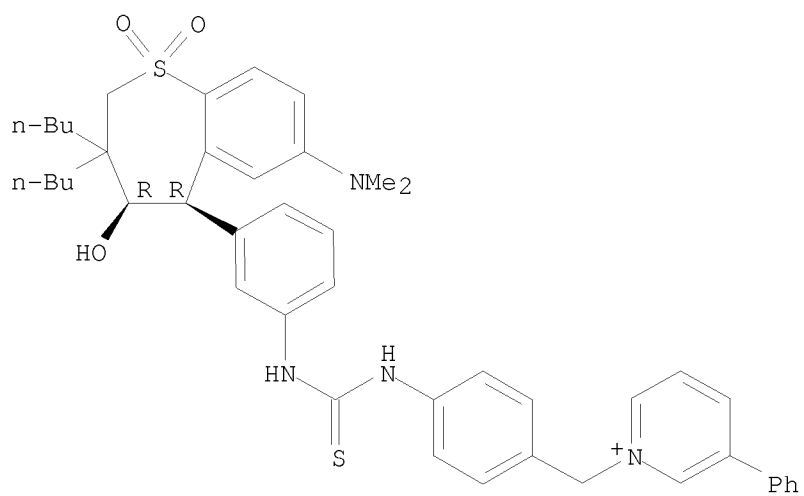
Relative stereochemistry.

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RN 1234630-72-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

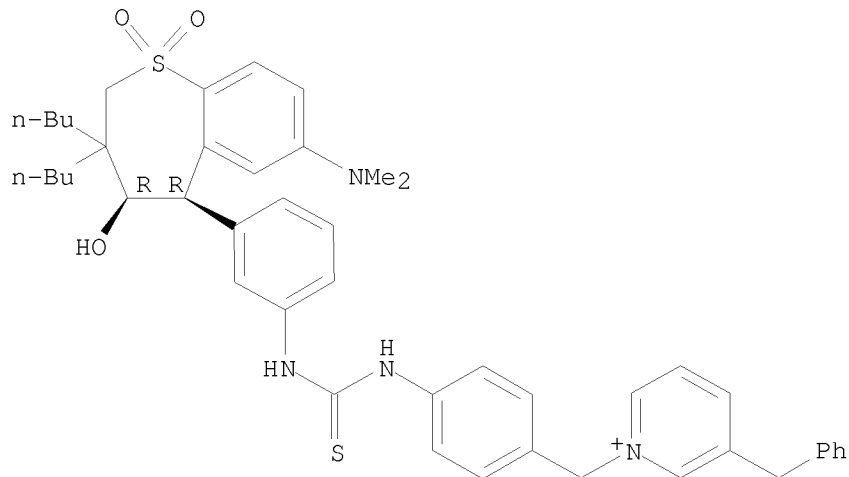
Relative stereochemistry.



RN 1234630-73-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

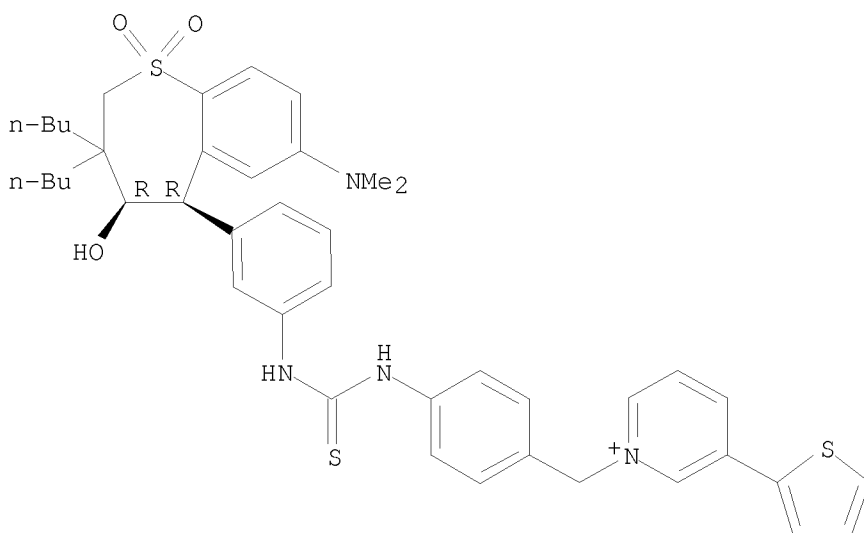
10/598,458



RN 1234630-74-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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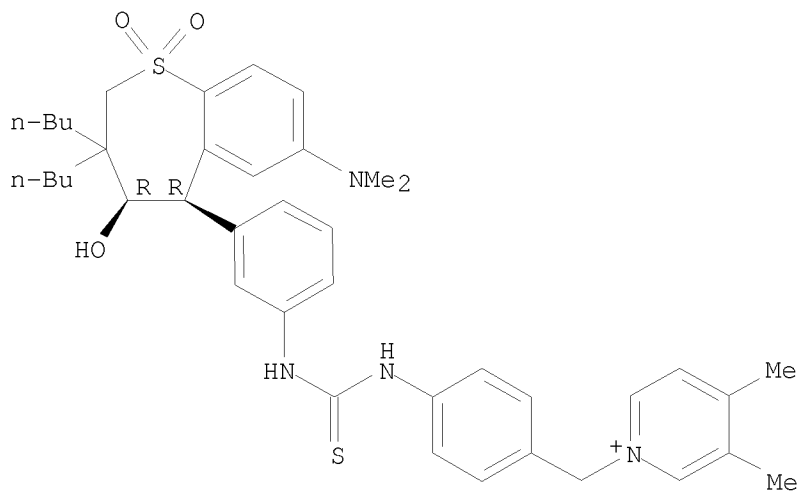
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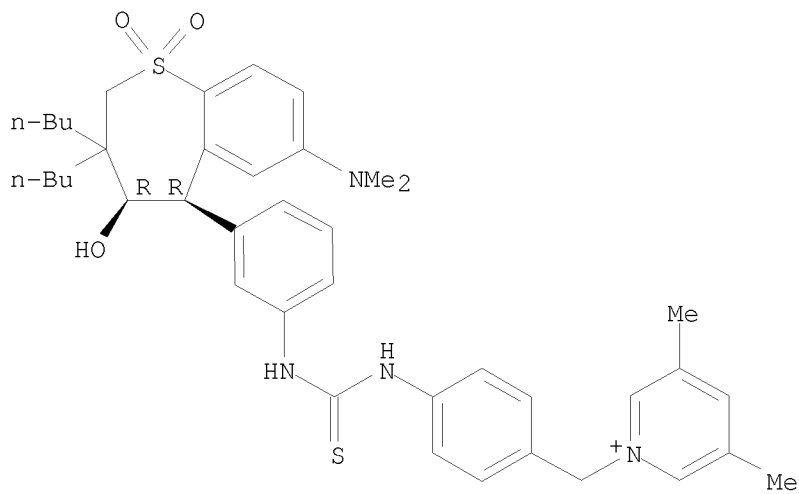
RN 1234630-75-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.



RN 1234630-76-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

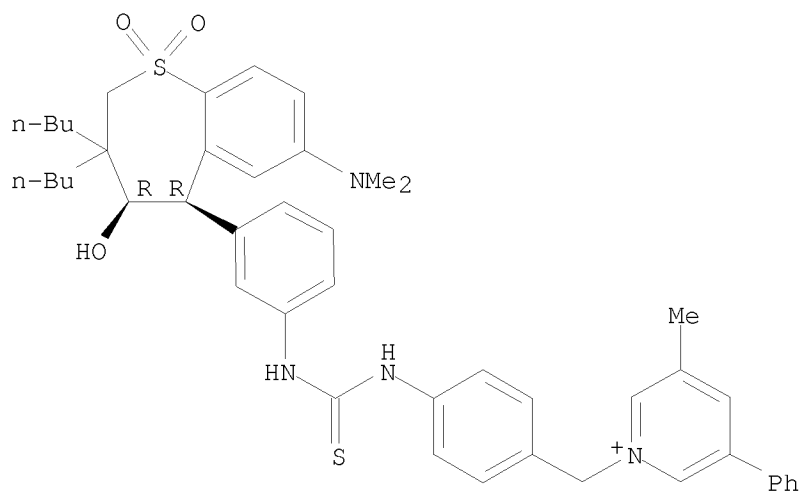


RN 1234630-77-3 CAPLUS

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CN INDEX NAME NOT YET ASSIGNED

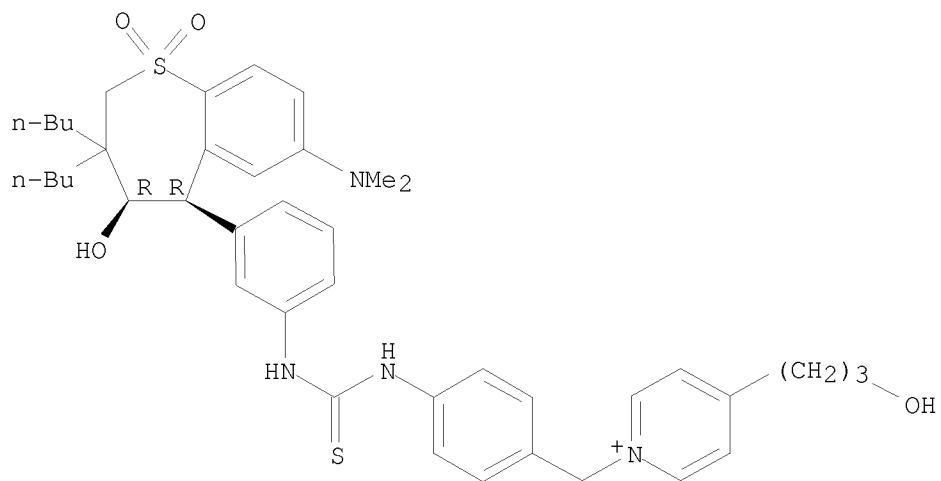
Relative stereochemistry.



RN 1234630-78-4 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

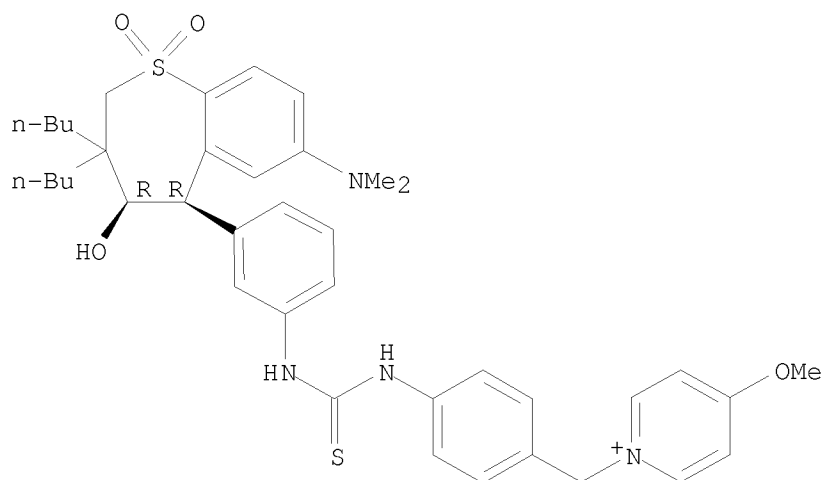


RN 1234630-79-5 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

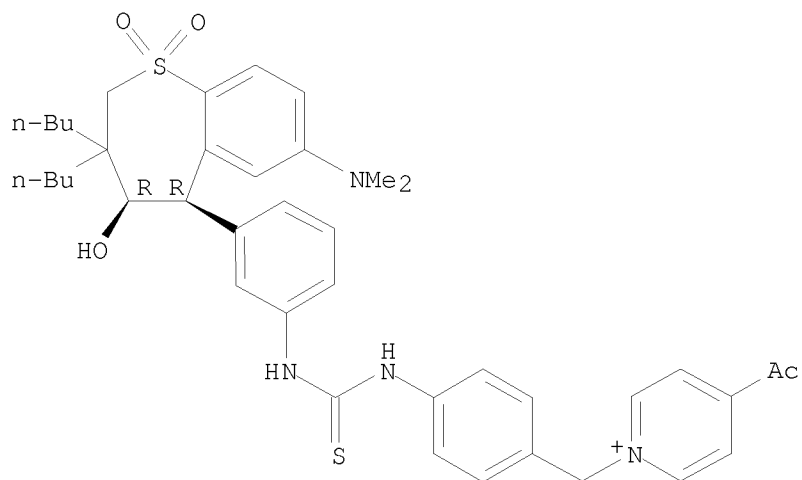
10/598,458

Relative stereochemistry.



RN 1234630-80-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

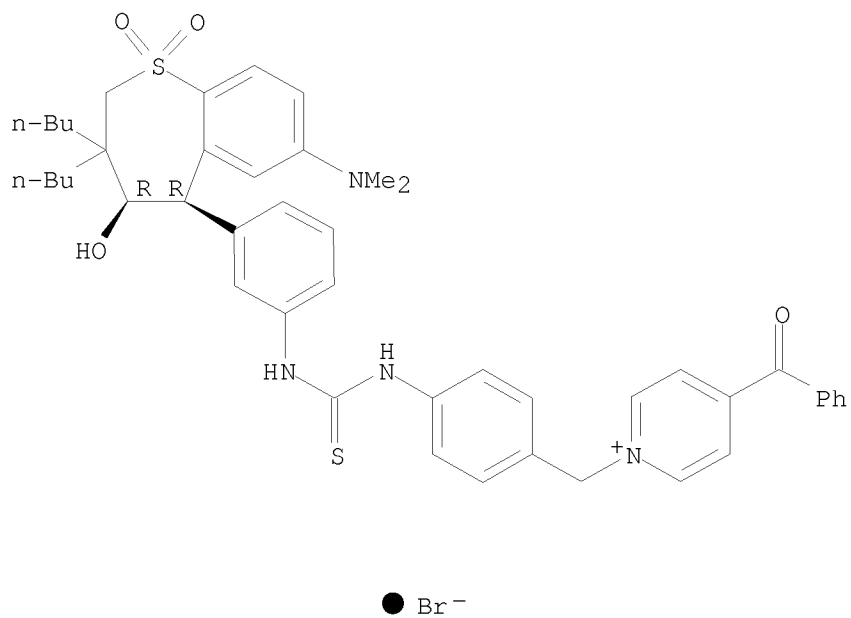
Relative stereochemistry.



RN 1234630-81-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

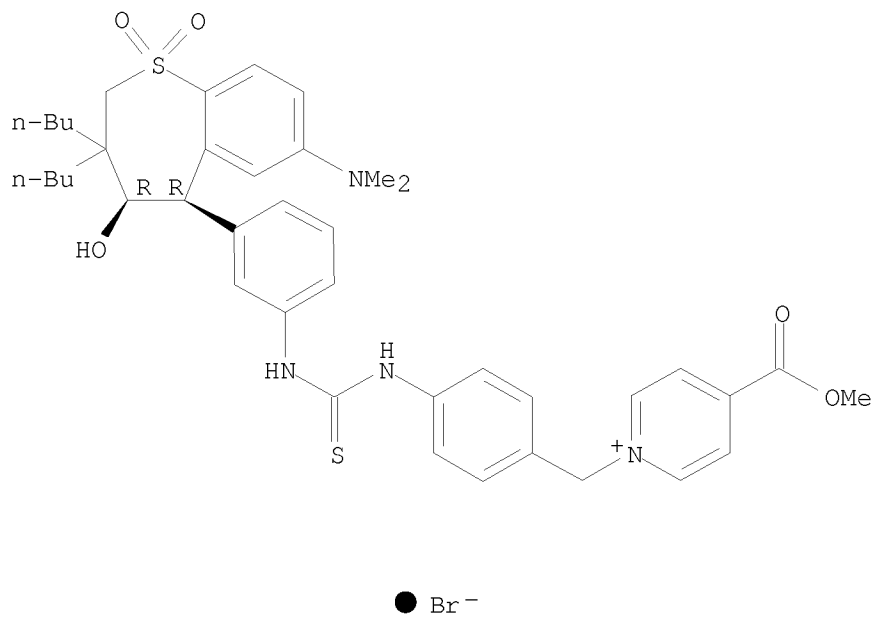
10/598,458

Relative stereochemistry.



RN 1234630-82-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

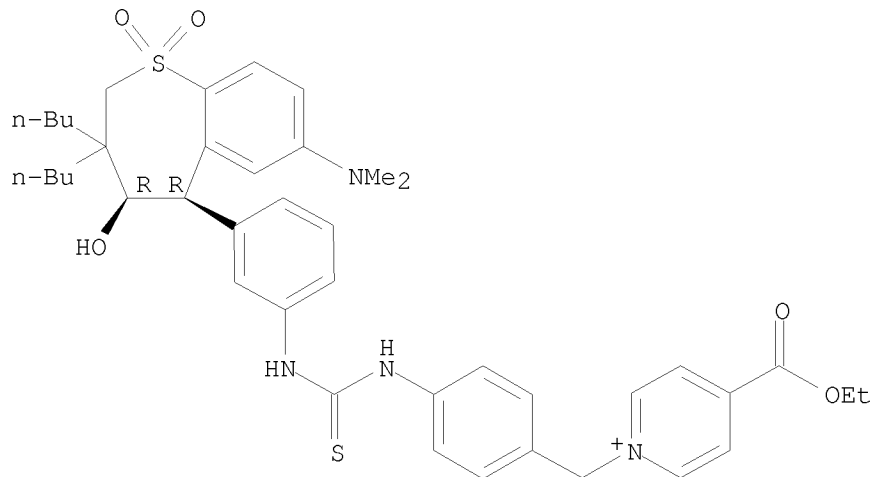
Relative stereochemistry.



RN 1234630-83-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

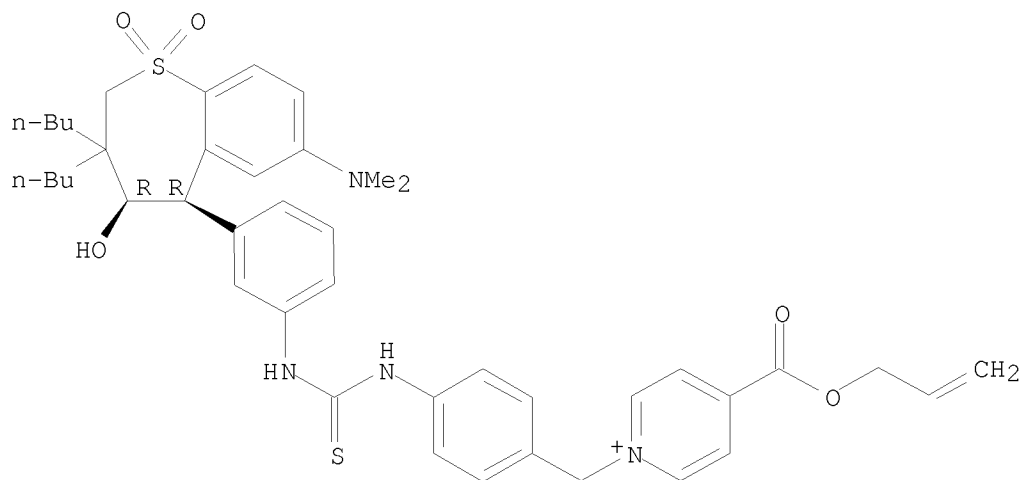
Relative stereochemistry.

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RN 1234630-84-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

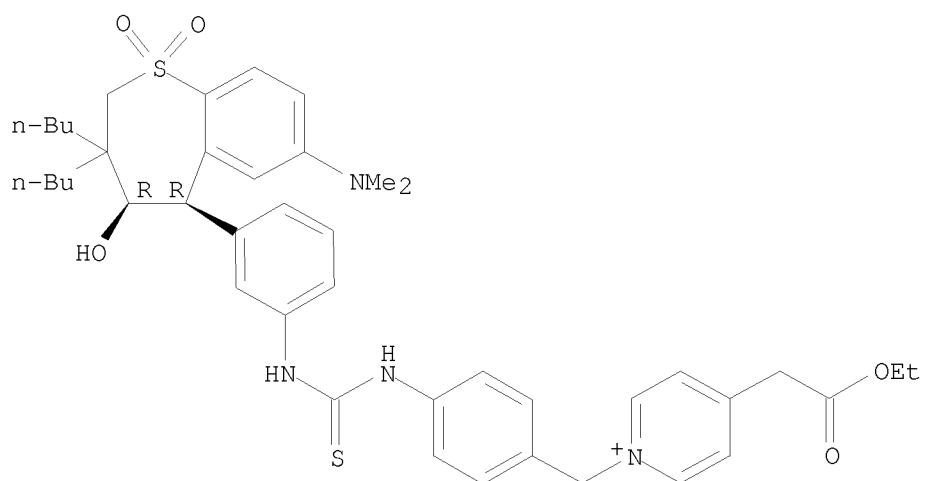
Relative stereochemistry.



RN 1234630-85-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

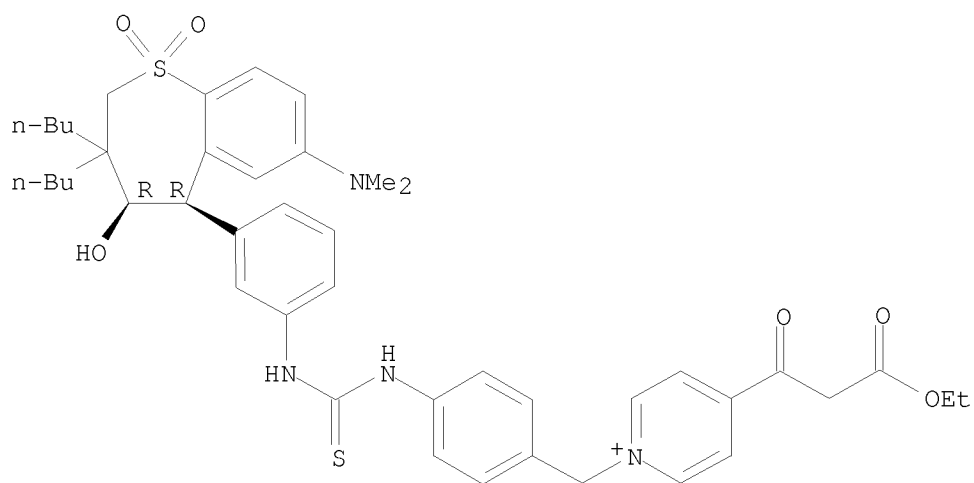
Relative stereochemistry.

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RN 1234630-86-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

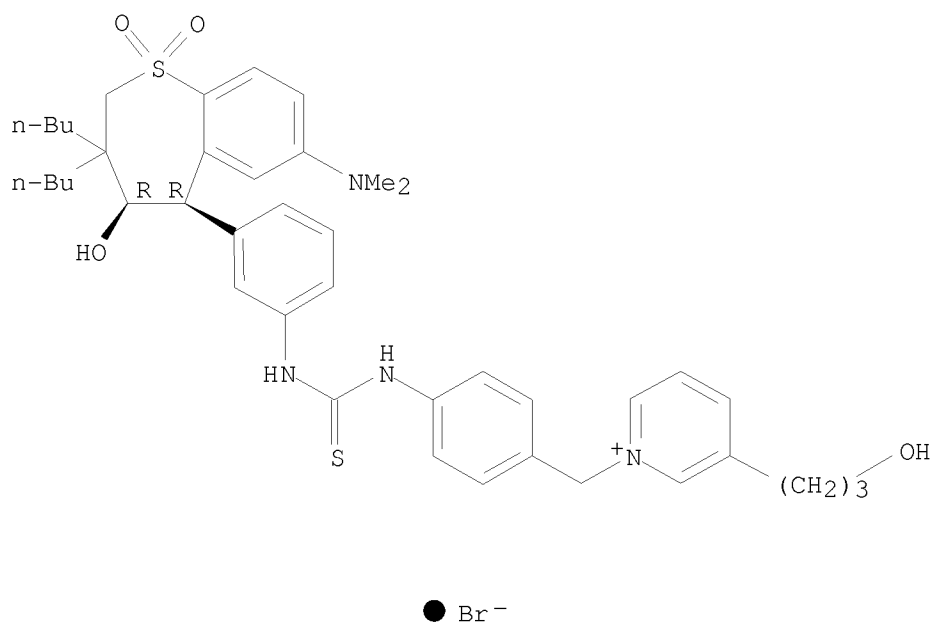
Relative stereochemistry.



RN 1234630-87-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

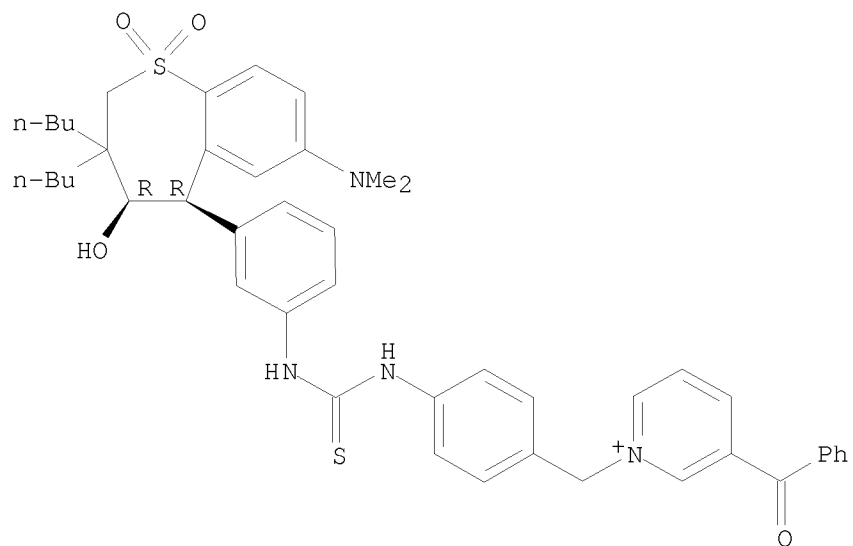
10/598,458



RN 1234630-88-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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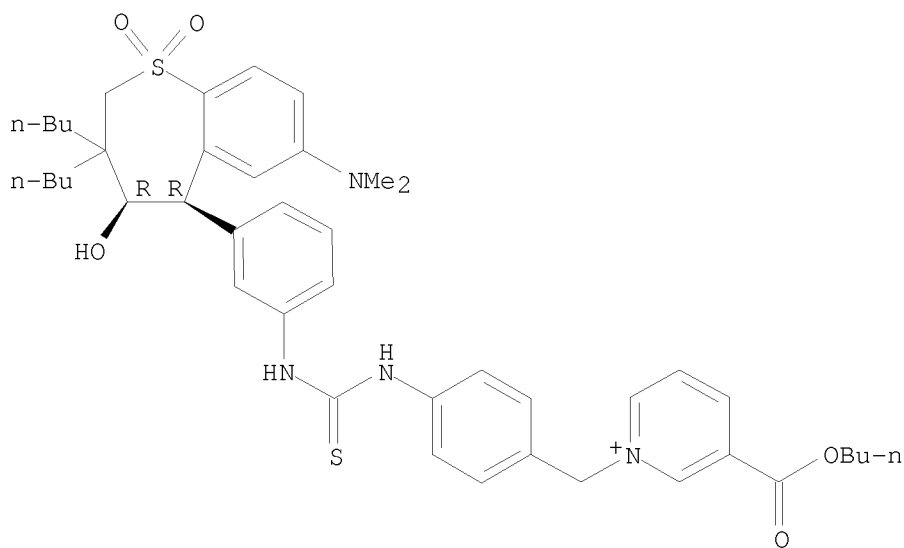
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RN 1234630-89-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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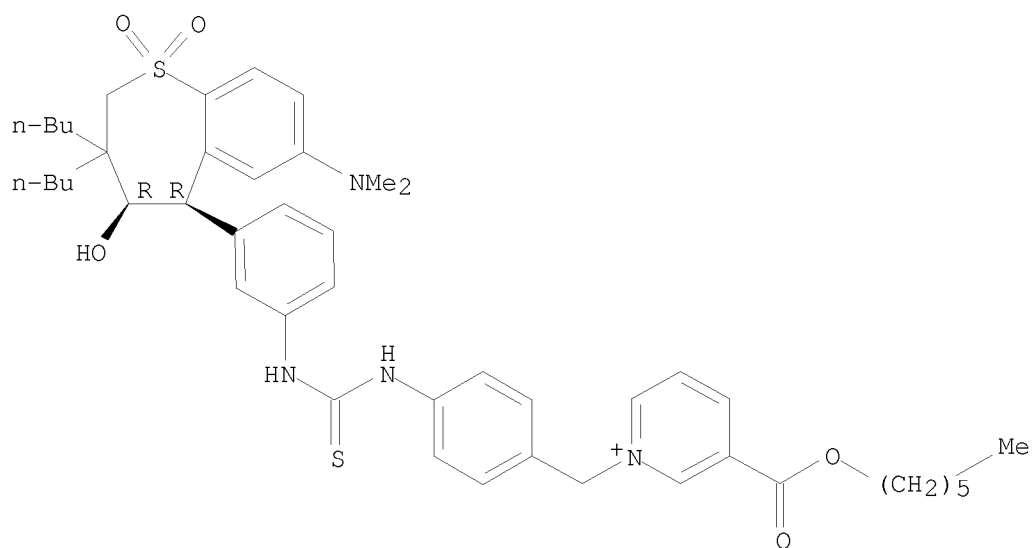
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RN 1234630-90-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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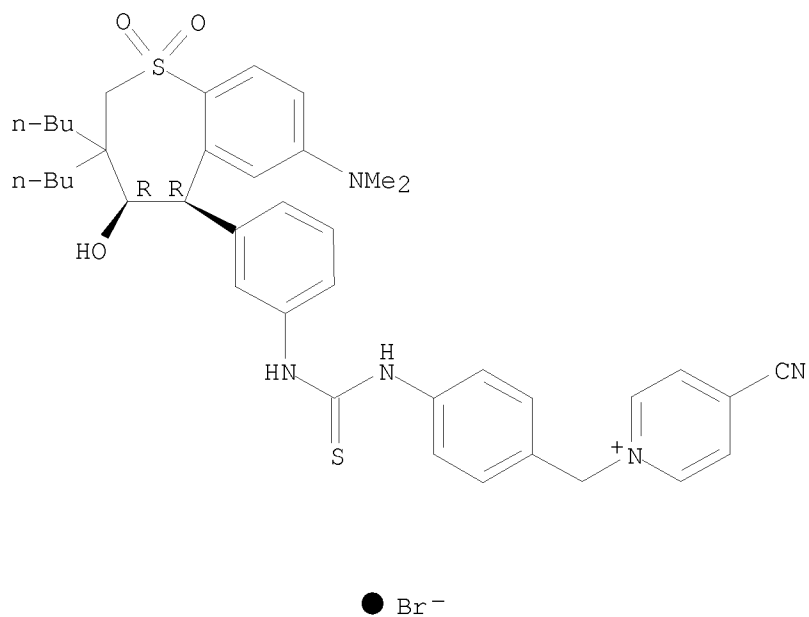


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RN 1234630-91-1 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

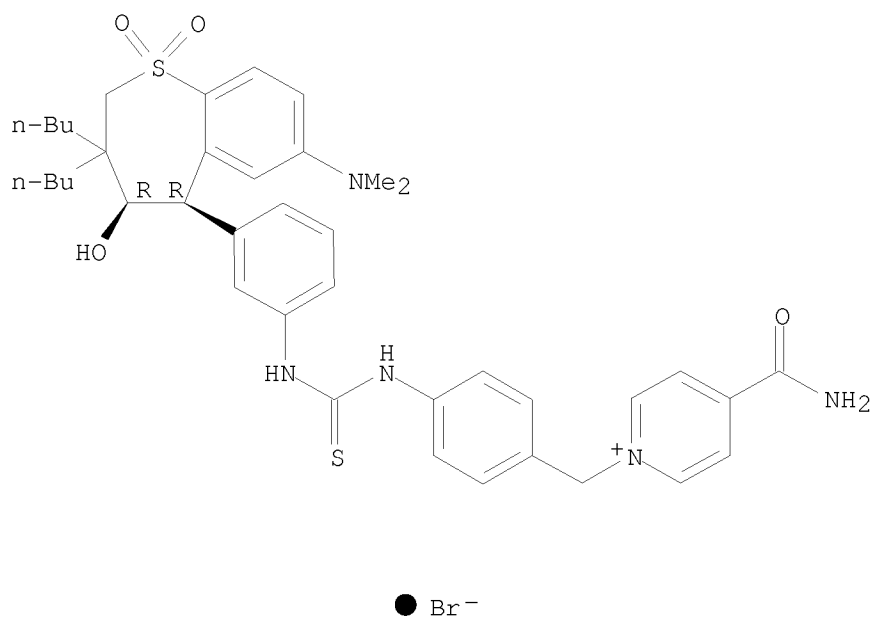
Relative stereochemistry.



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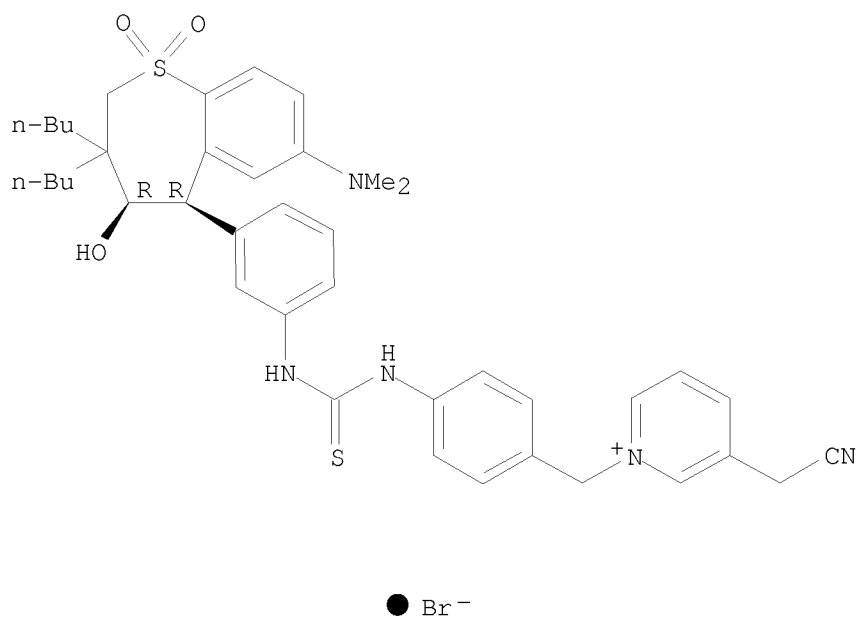
RN 1234630-92-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.



RN 1234630-93-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

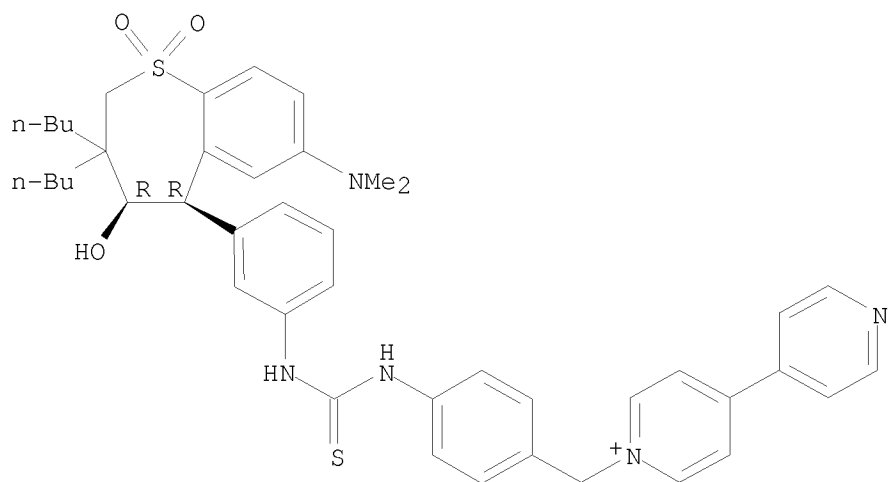
Relative stereochemistry.



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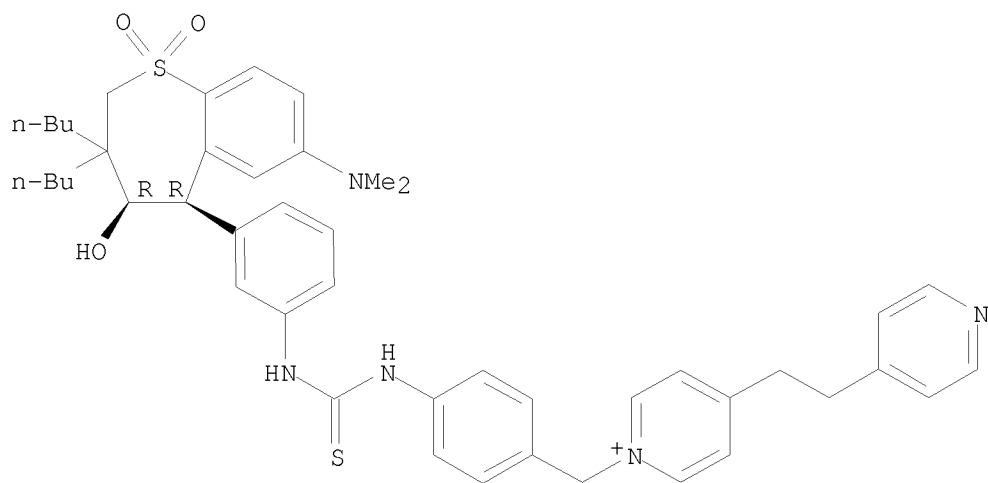
RN 1234630-94-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.



RN 1234630-95-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

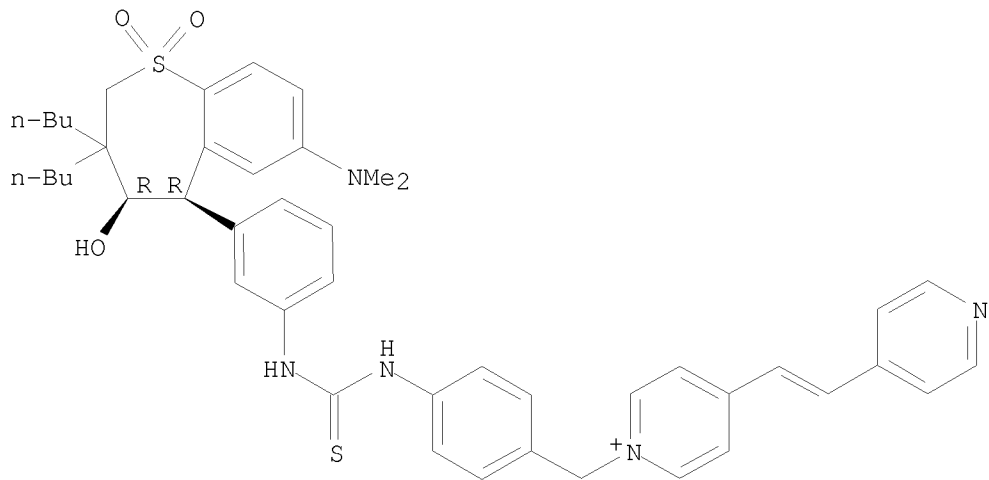


RN 1234630-96-6 CAPLUS

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CN INDEX NAME NOT YET ASSIGNED

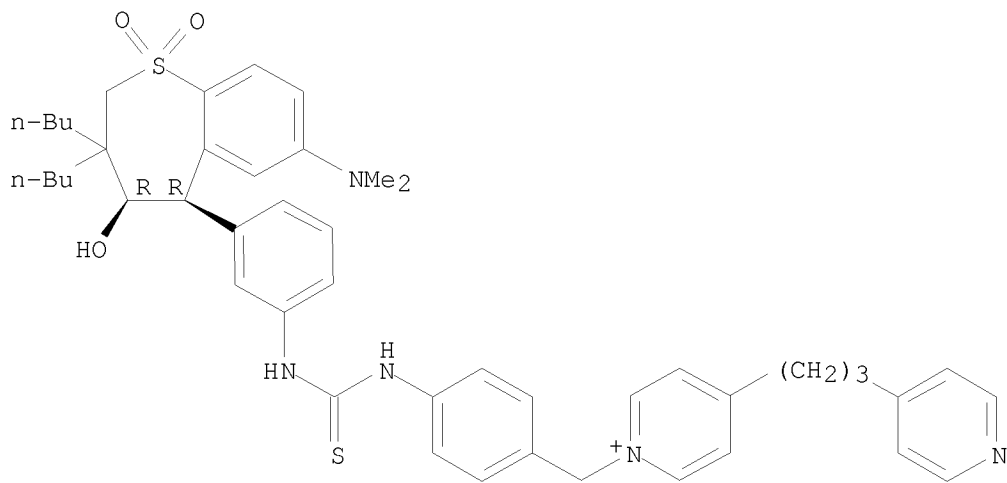
Relative stereochemistry.
Double bond geometry unknown.



RN 1234630-97-7 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

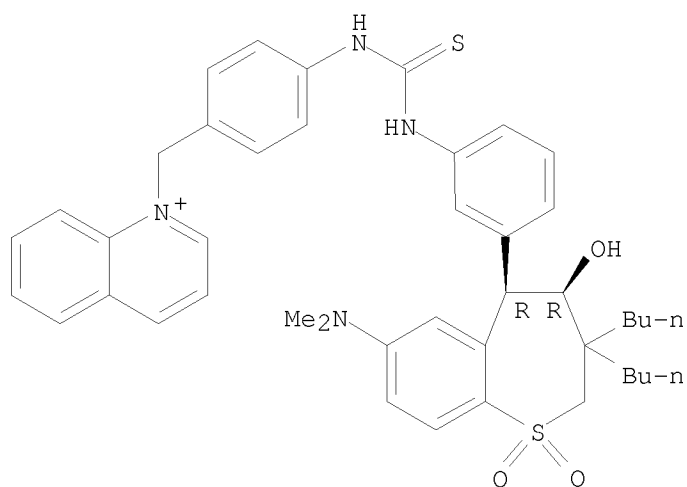


RN 1234630-98-8 CAPLUS

10/598,458

CN INDEX NAME NOT YET ASSIGNED

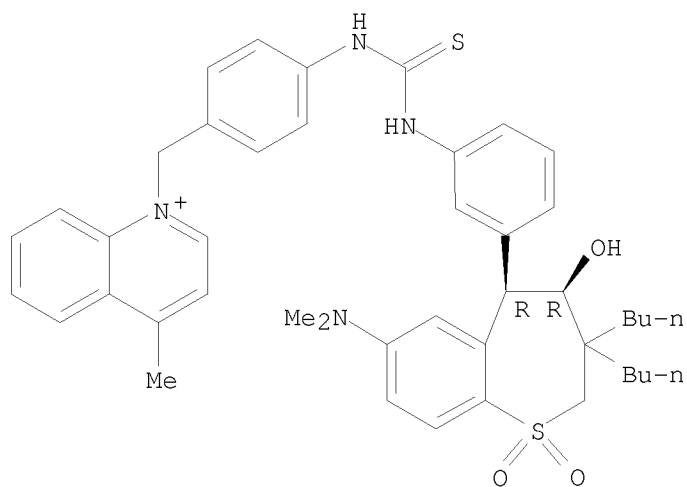
Relative stereochemistry.



RN 1234630-99-9 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

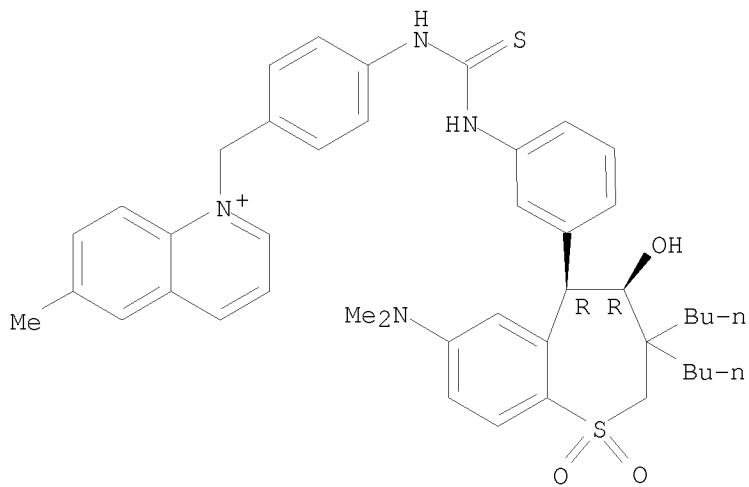


RN 1234631-00-5 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

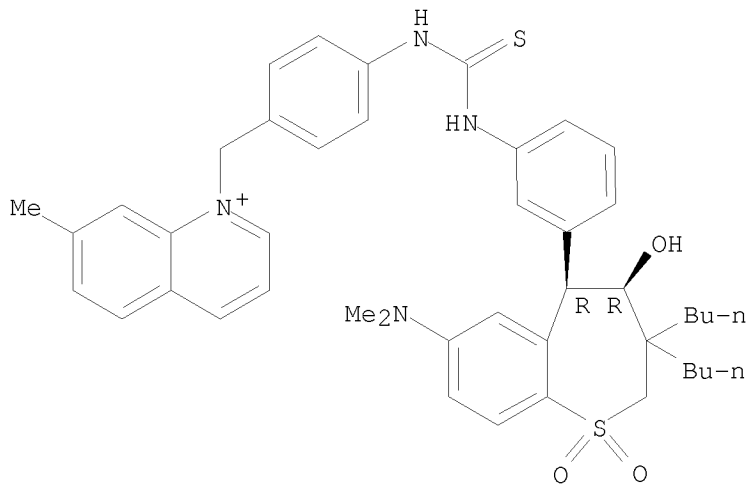
10/598,458

Relative stereochemistry.



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RN      1234631-01-6  CAPLUS
CN      INDEX NAME NOT YET ASSIGNED
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Relative stereochemistry.



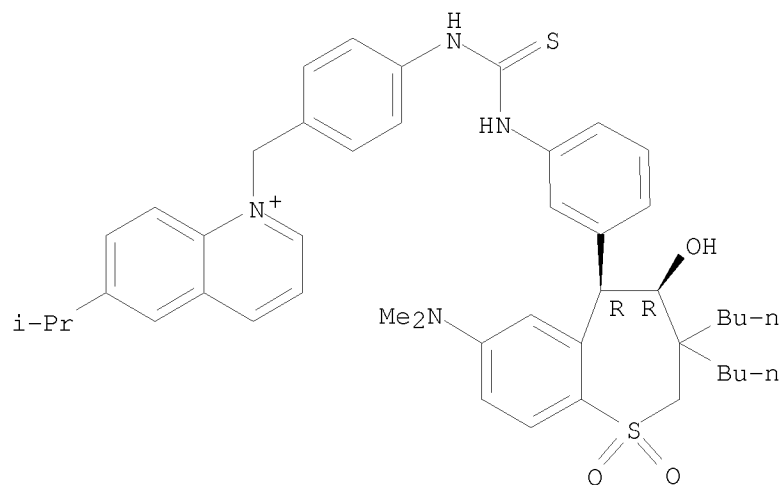
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RN      1234631-02-7  CAPLUS
CN      INDEX NAME NOT YET ASSIGNED

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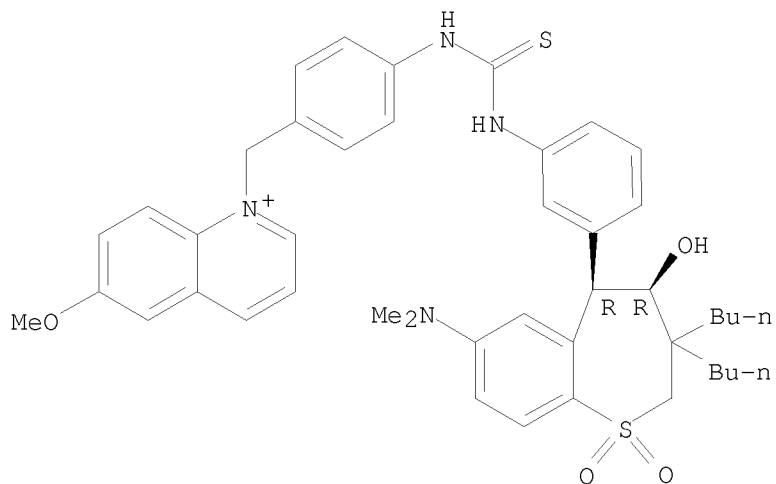
10/598,458

Relative stereochemistry.



RN 1234631-03-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

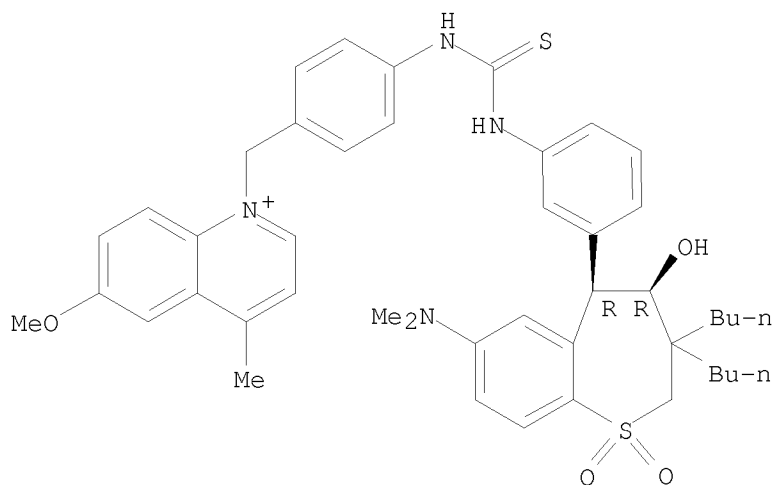
Relative stereochemistry.



RN 1234631-04-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

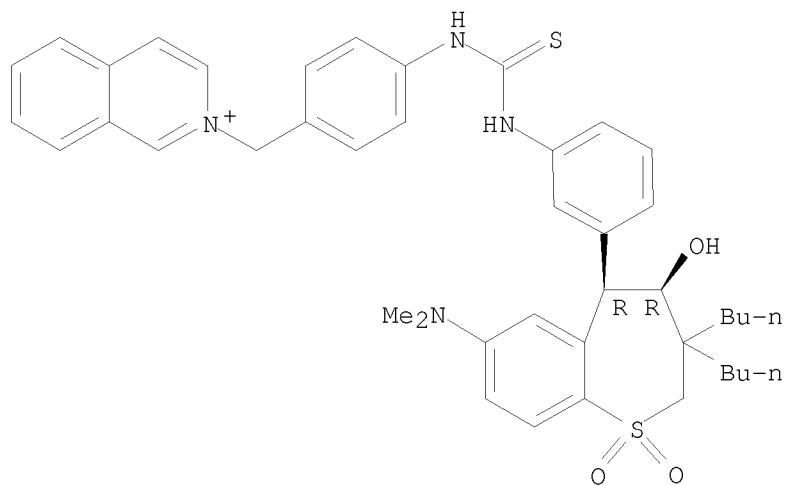
Relative stereochemistry.

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RN 1234631-05-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

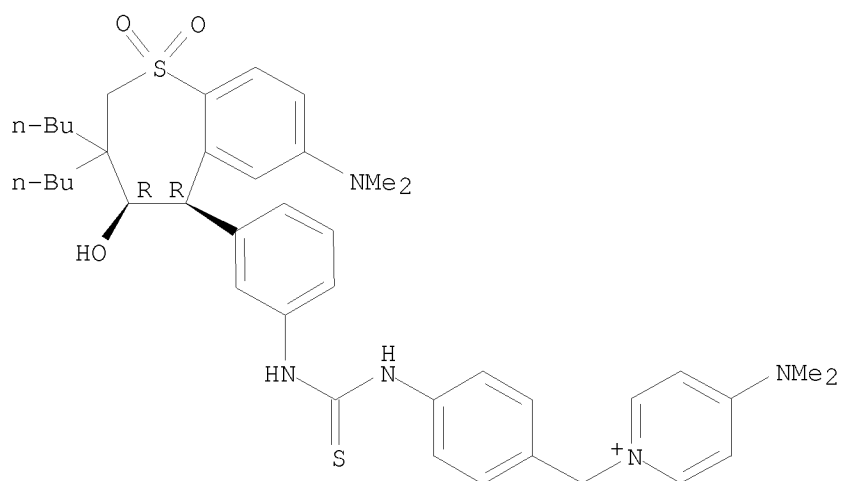
Relative stereochemistry.



RN 1234631-06-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

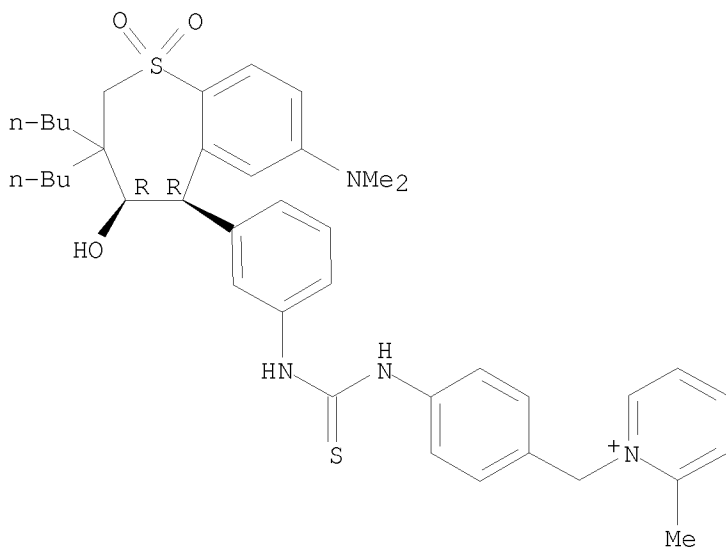
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RN 1234631-07-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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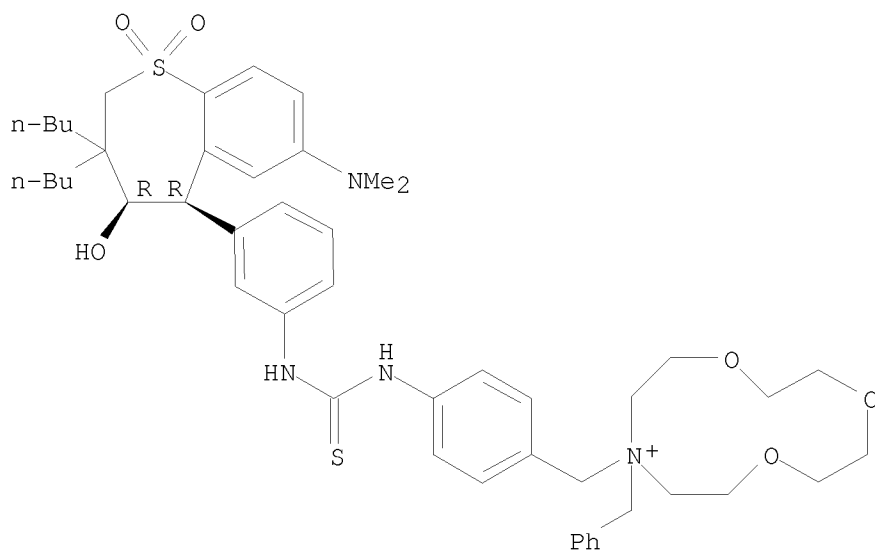


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RN 1234631-08-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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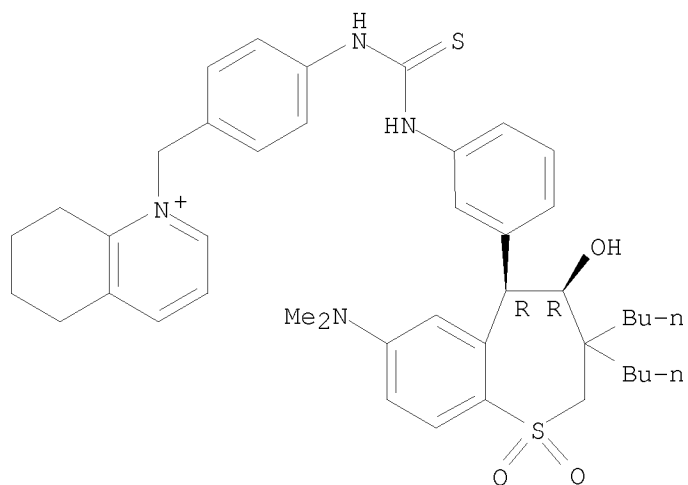
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RN 1234631-09-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

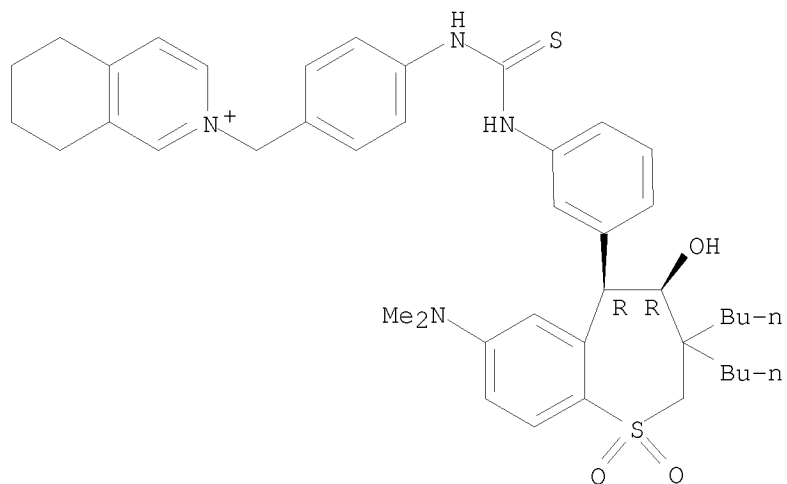
Relative stereochemistry.

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RN 1234631-10-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

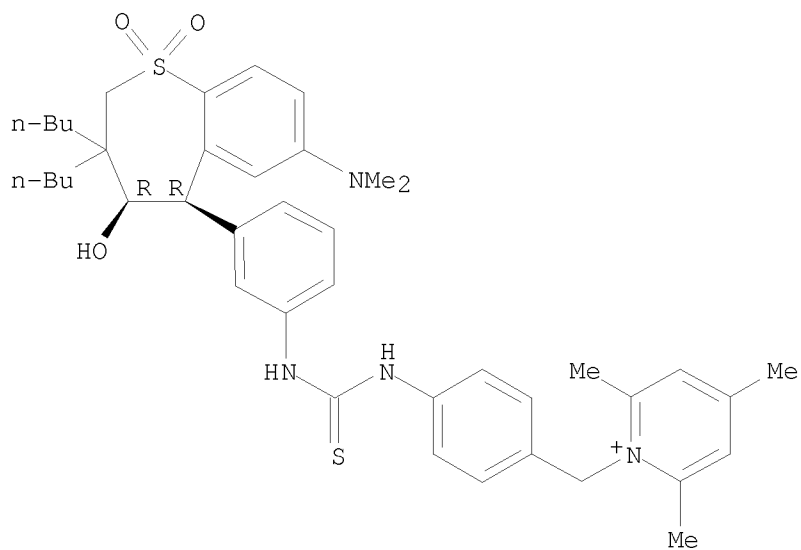
Relative stereochemistry.



RN 1234631-11-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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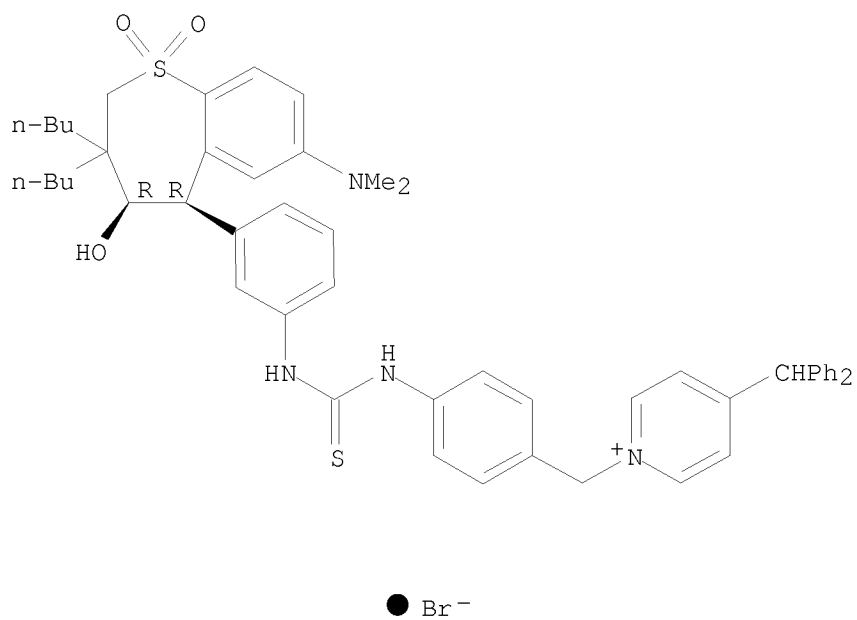


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RN 1234631-12-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

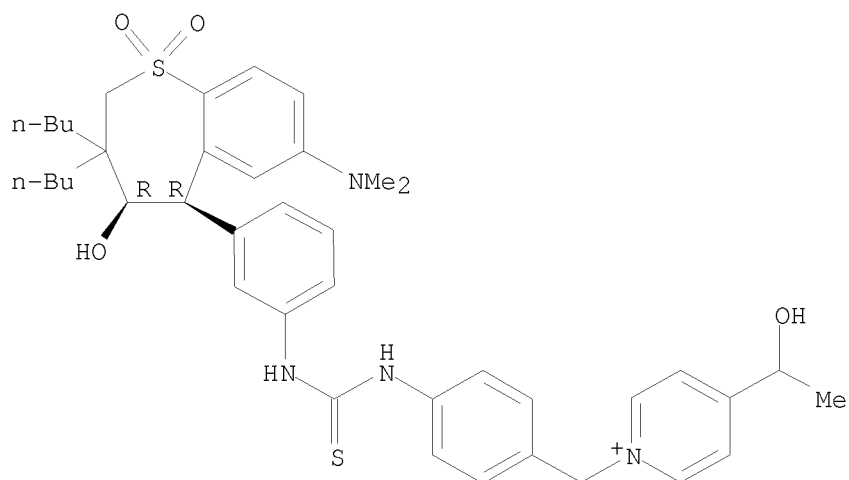
Relative stereochemistry.



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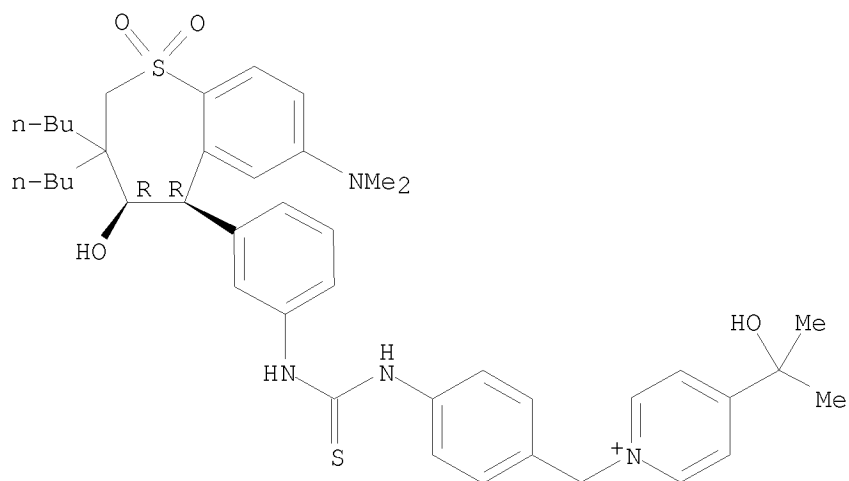
RN 1234631-13-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.



RN 1234631-14-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.



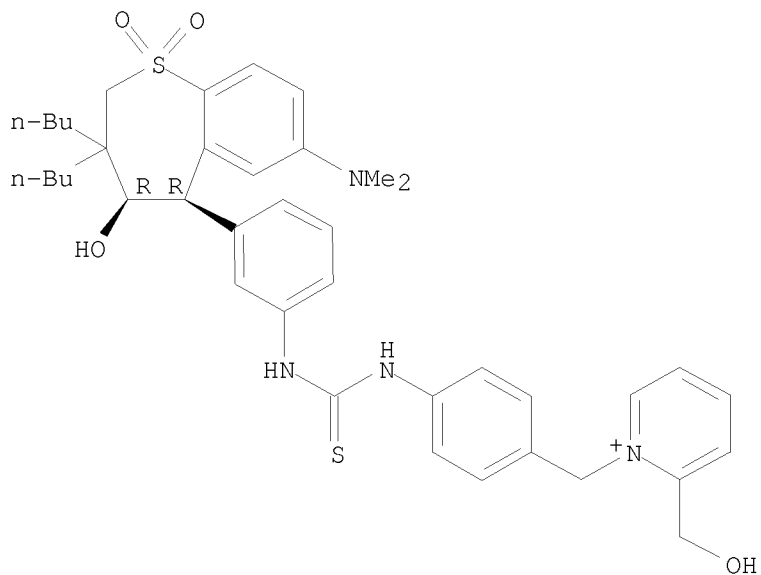
RN 1234631-15-2 CAPLUS

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CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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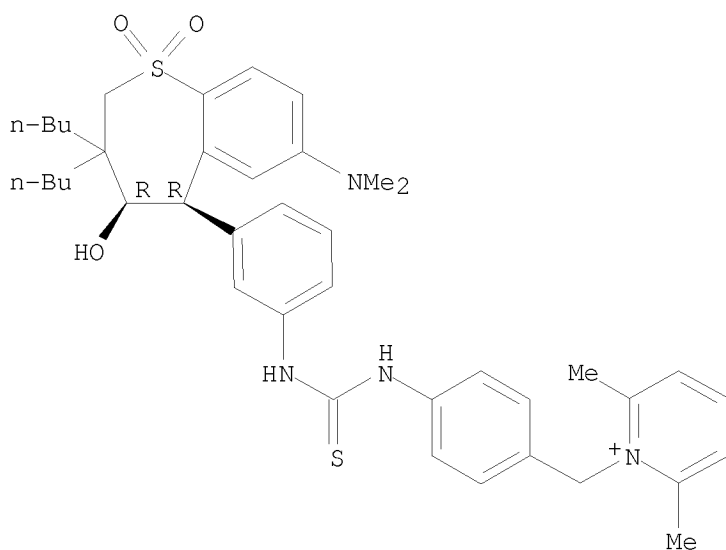


RN 1234631-16-3 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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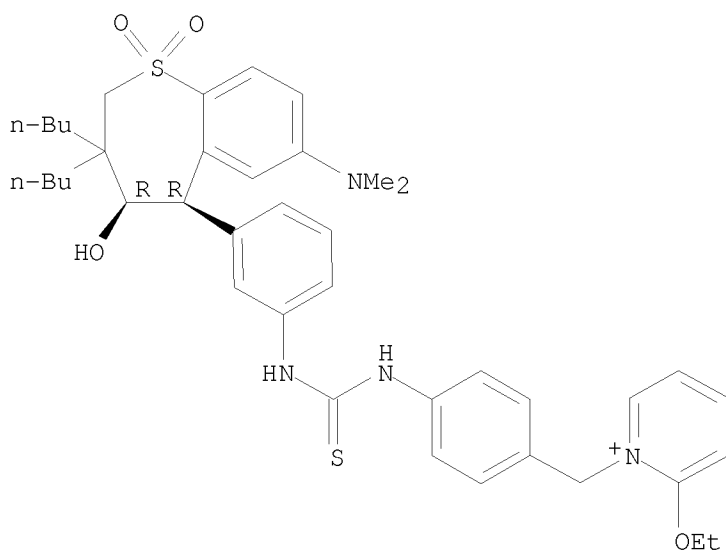
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RN 1234631-17-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

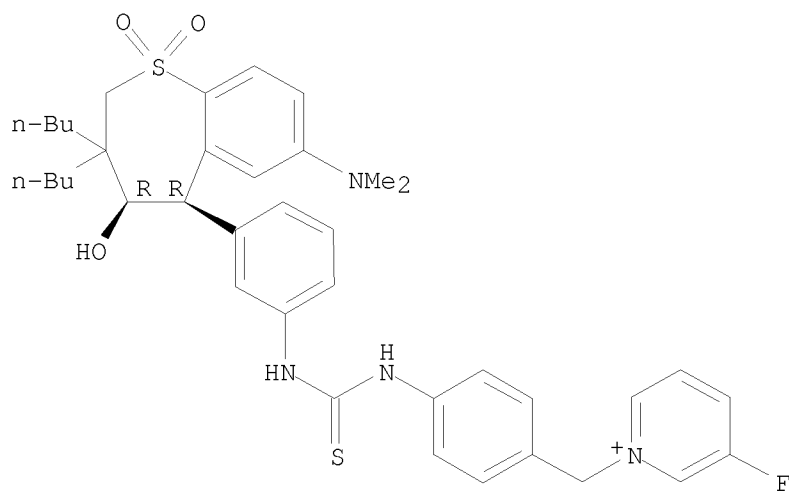
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RN 1234631-18-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

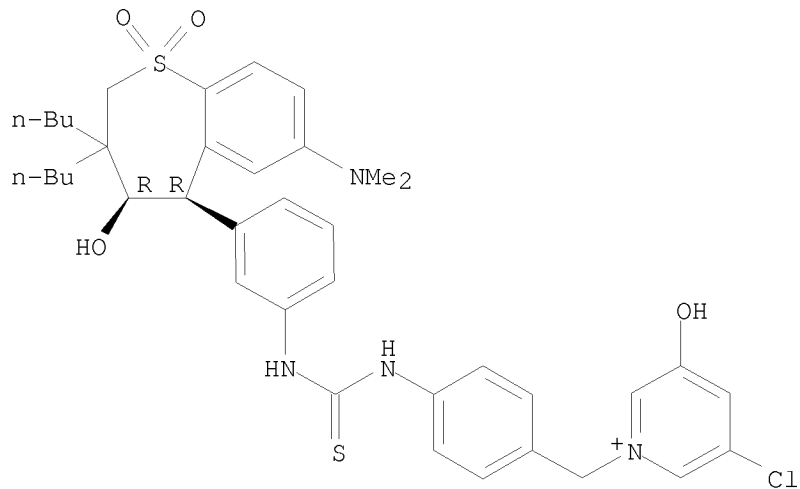
Relative stereochemistry.



RN 1234631-19-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

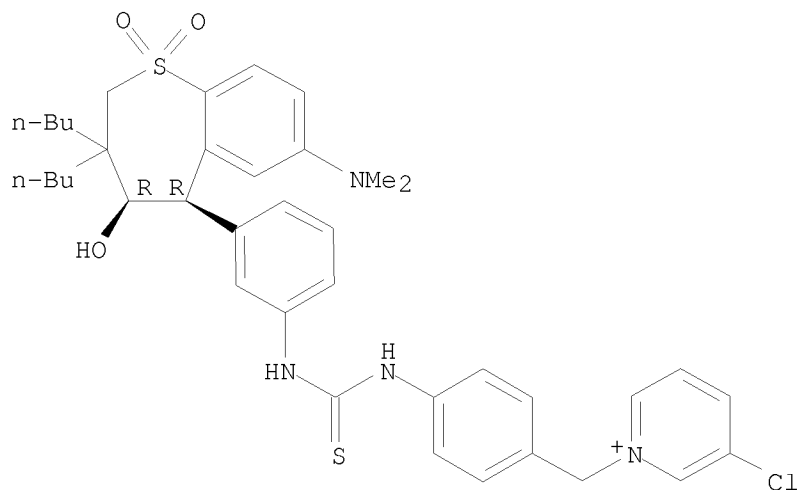
Relative stereochemistry.

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RN 1234631-20-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

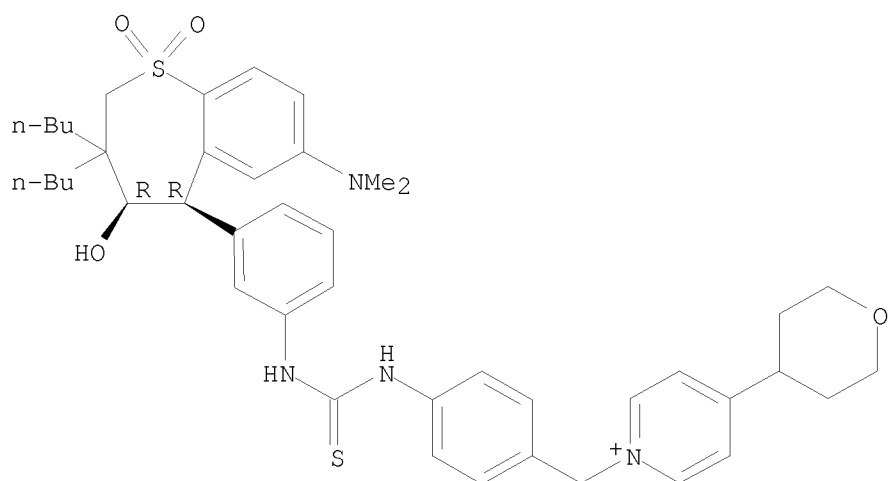
Relative stereochemistry.



RN 1234631-21-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

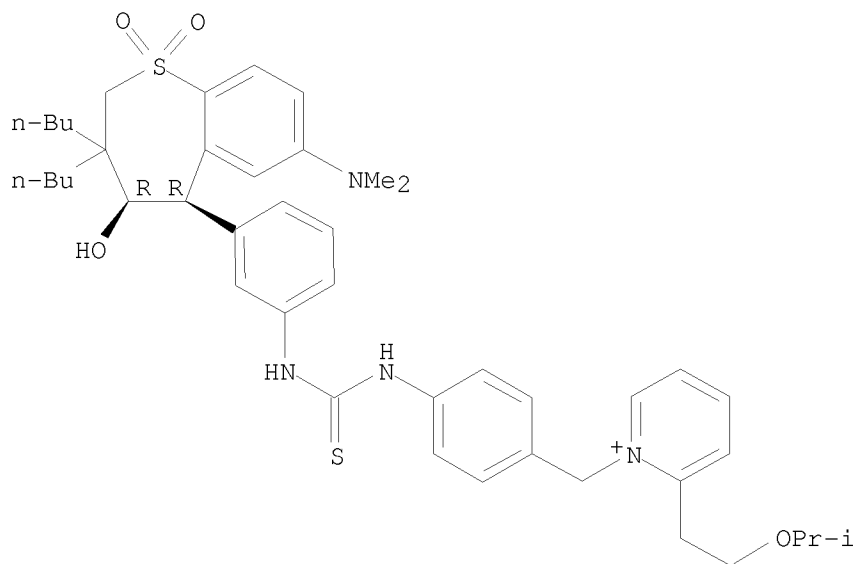
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RN 1234631-22-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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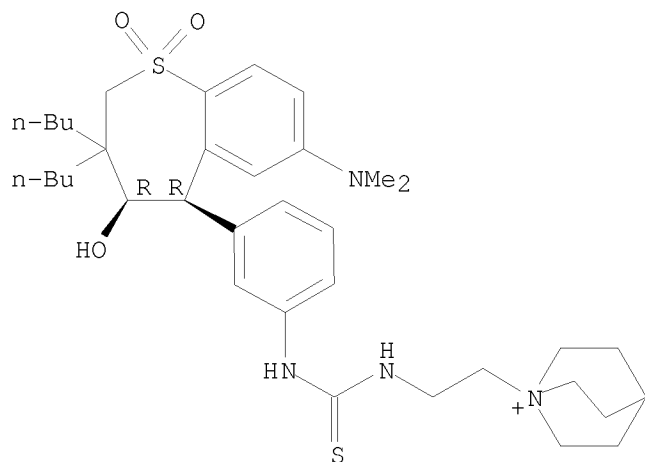


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RN 1234631-23-2 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[2-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]ethyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.



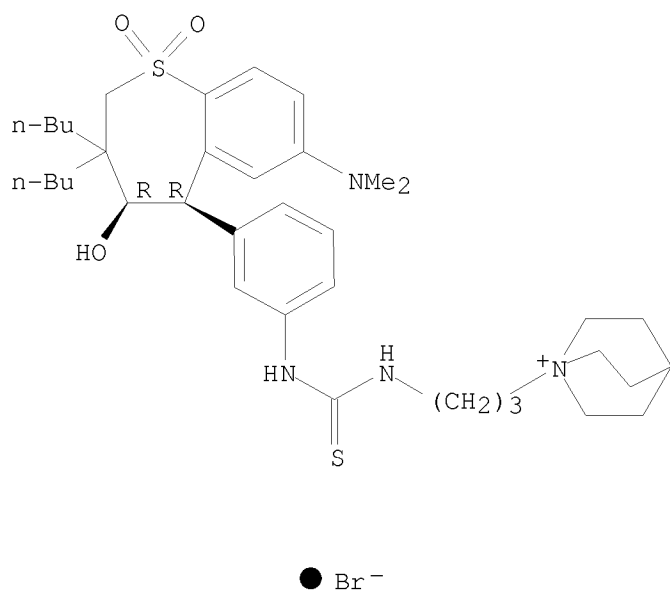
● Br⁻

RN 1234631-24-3 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[3-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]propyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

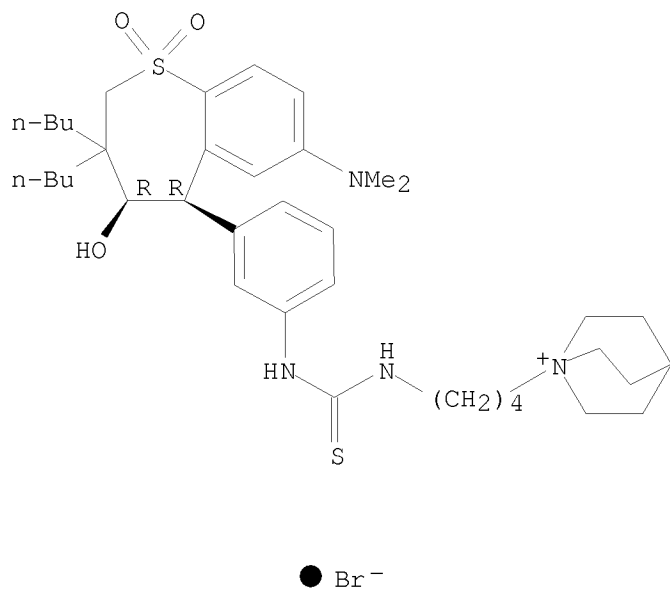
10/598,458



RN 1234631-25-4 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]butyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.



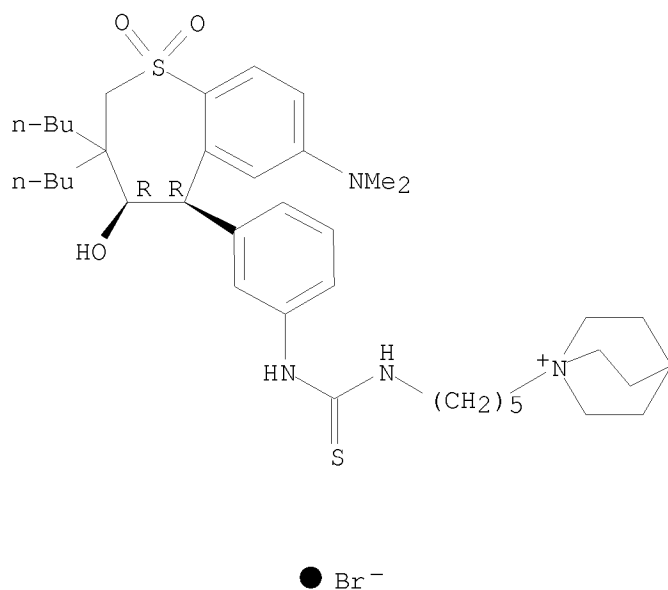
RN 1234631-26-5 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[5-[[[3-[(4R,5R)-3,3-dibutyl-7-

10/598,458

(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]pentyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

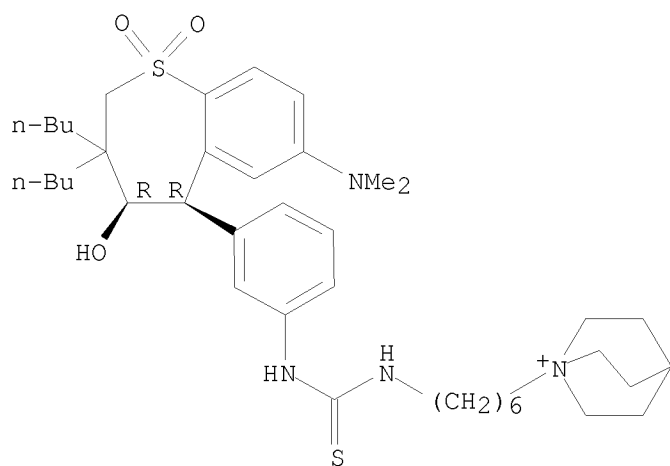


RN 1234631-27-6 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[6-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]hexyl]-, bromide (1:1), rel- (CA INDEX NAME)

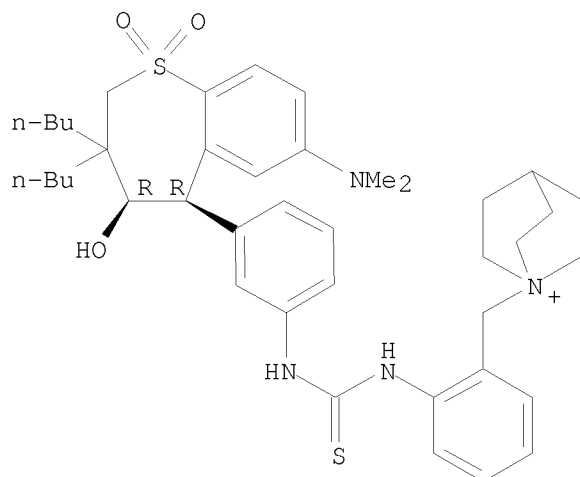
Relative stereochemistry.

10/598,458



RN 1234631-28-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

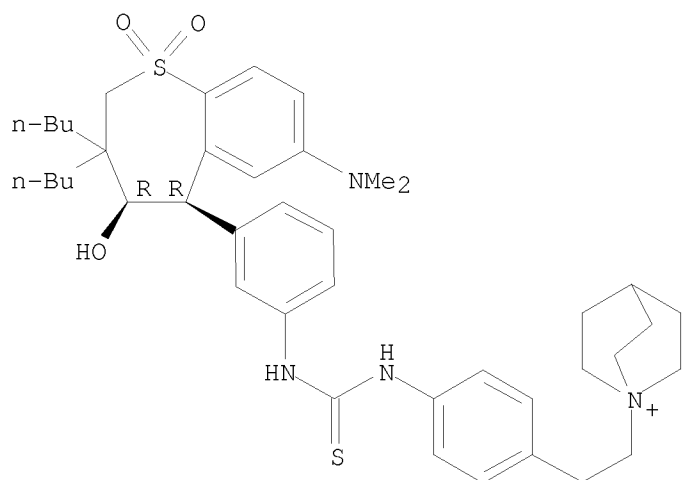
Relative stereochemistry.



RN 1234631-29-8 CAPLUS
CN 1-Azoniabicyclo[2.2.2]octane, 1-[2-[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]ethyl]-, bromide (1:1), rel- (CA INDEX NAME)

10/598,458

Relative stereochemistry.

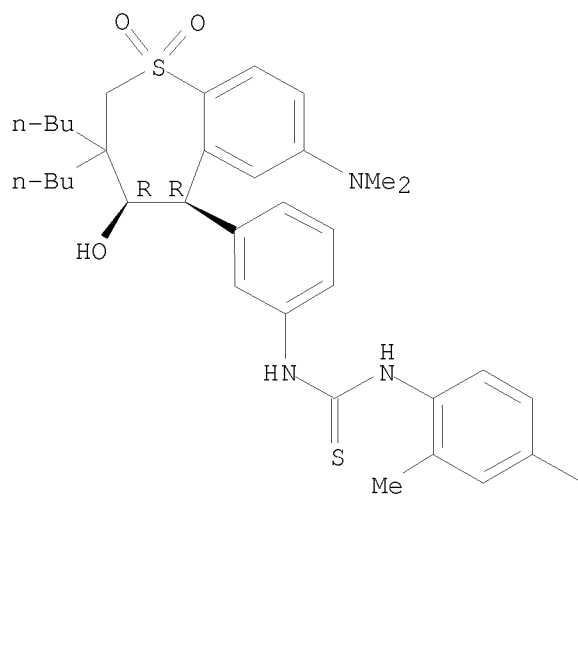


RN 1234631-30-1 CAPLUS

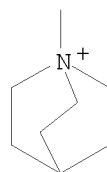
CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-methylphenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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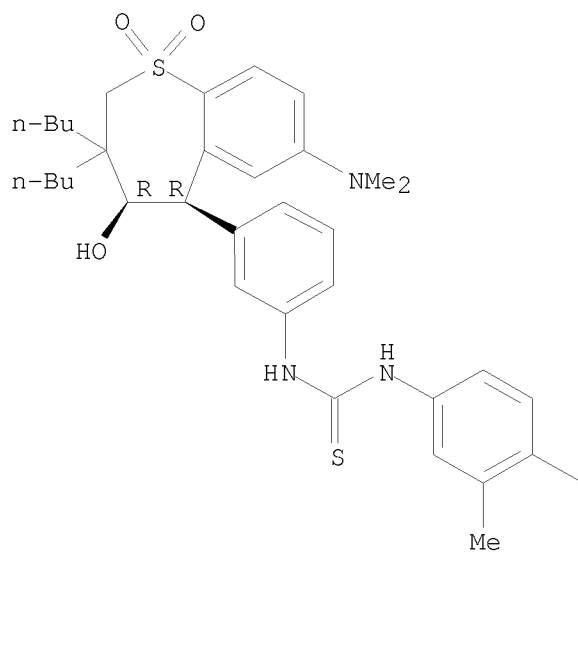
PAGE 2-A



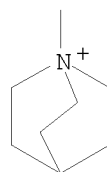
RN 1234631-31-2 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-methylphenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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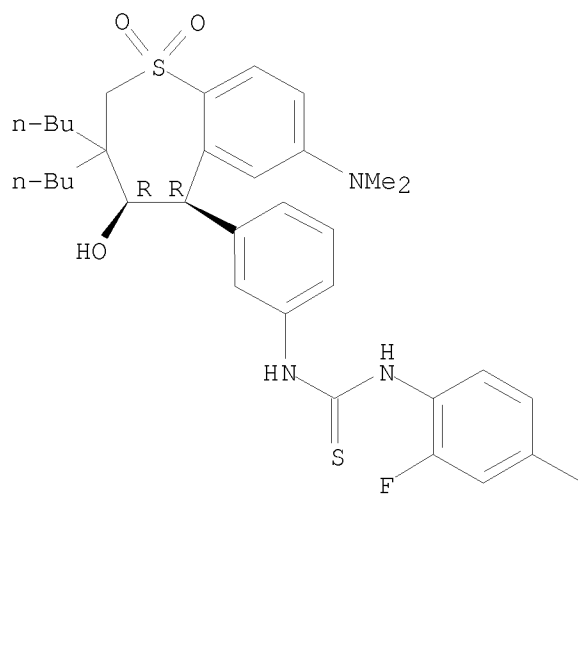
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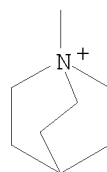
RN 1234631-32-3 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-fluorophenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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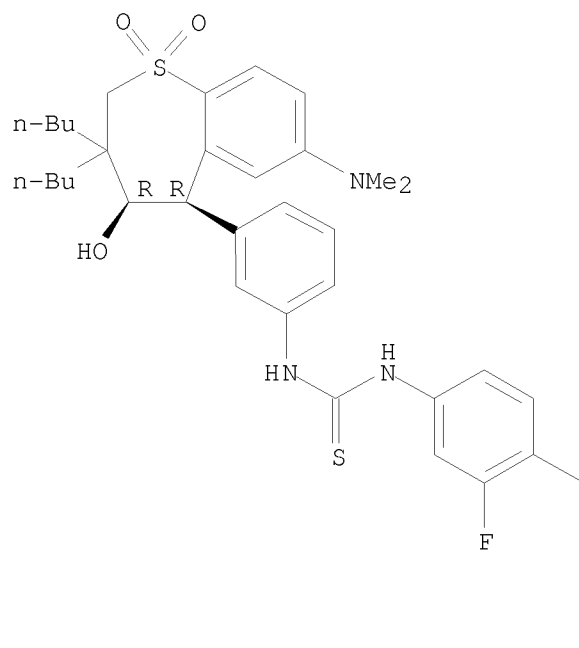
PAGE 2-A



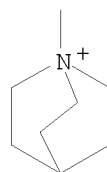
RN 1234631-33-4 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-fluorophenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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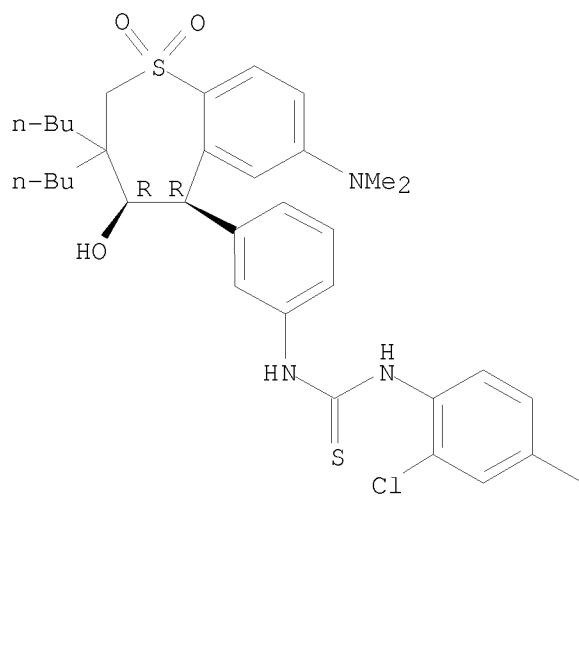
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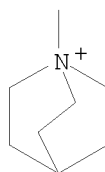
RN 1234631-34-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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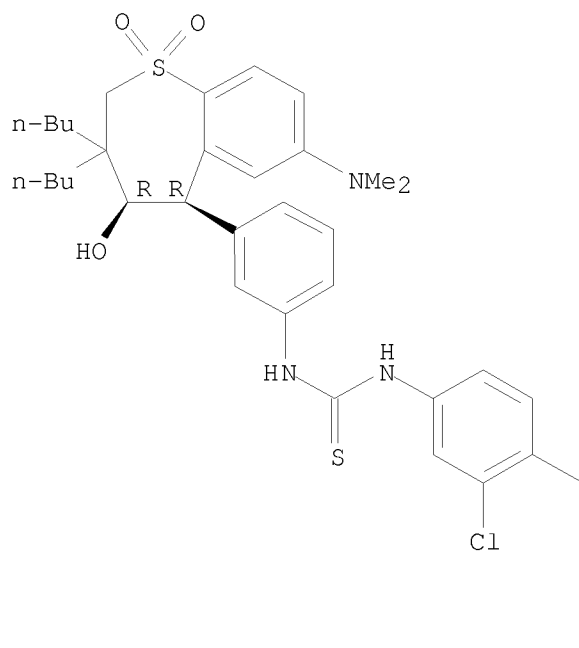
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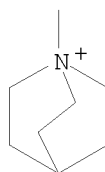
RN 1234631-35-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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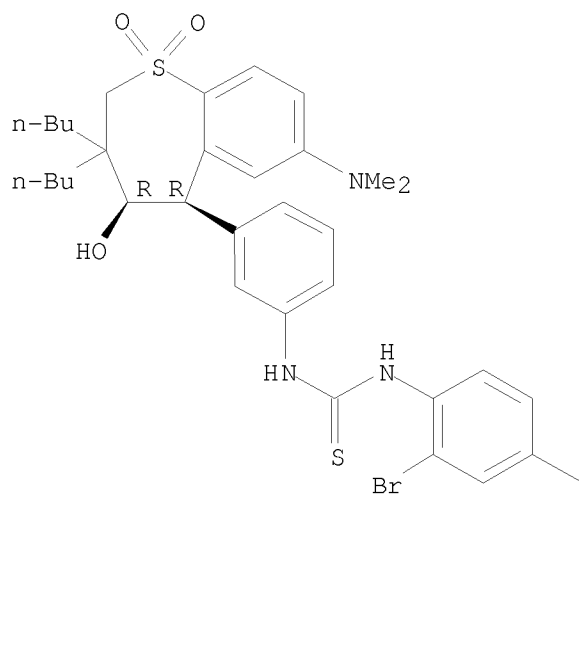
PAGE 2-A



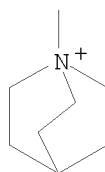
RN 1234631-36-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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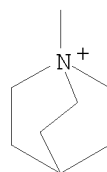
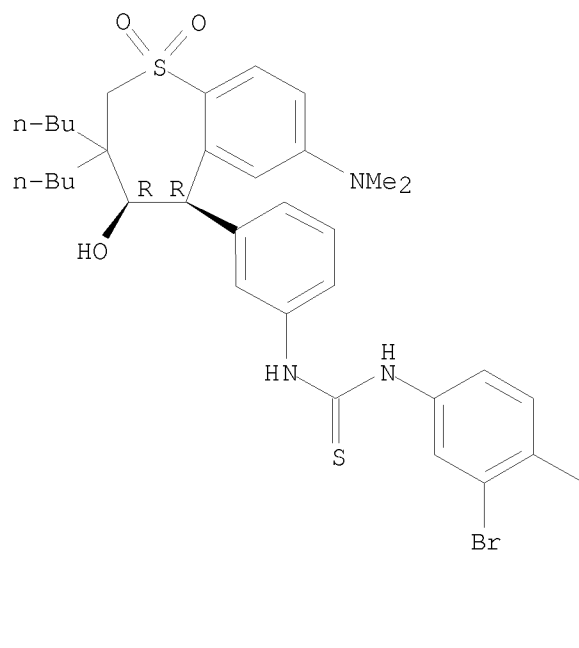


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RN 1234631-37-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

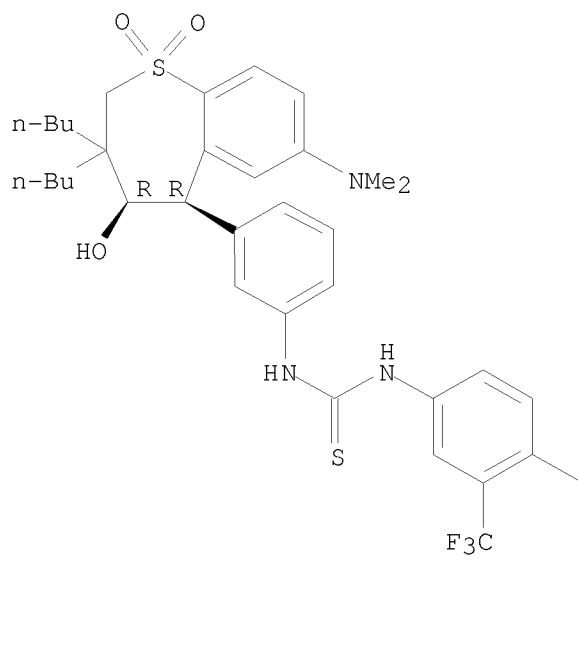
Relative stereochemistry.



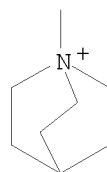
RN 1234631-38-9 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-(trifluoromethyl)phenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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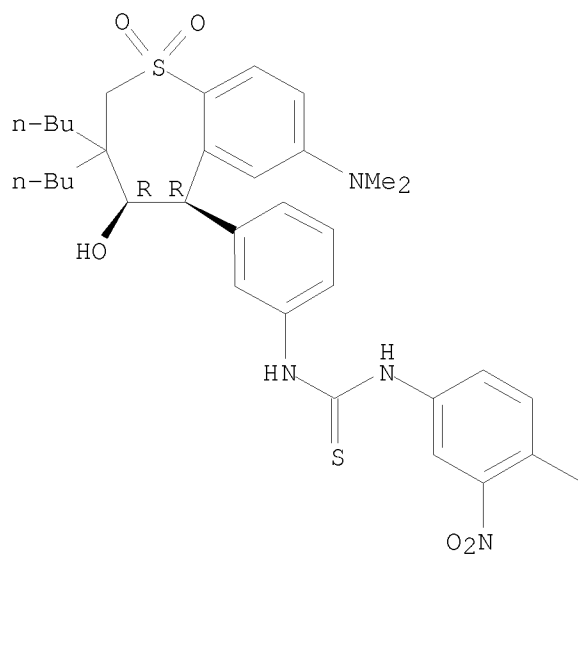
PAGE 2-A



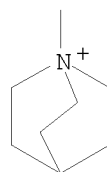
RN	1234631-39-0	CAPLUS
CN	1-Azoniabicyclo[2.2.2]octane, 1-[[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-nitrophenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)	

Relative stereochemistry.

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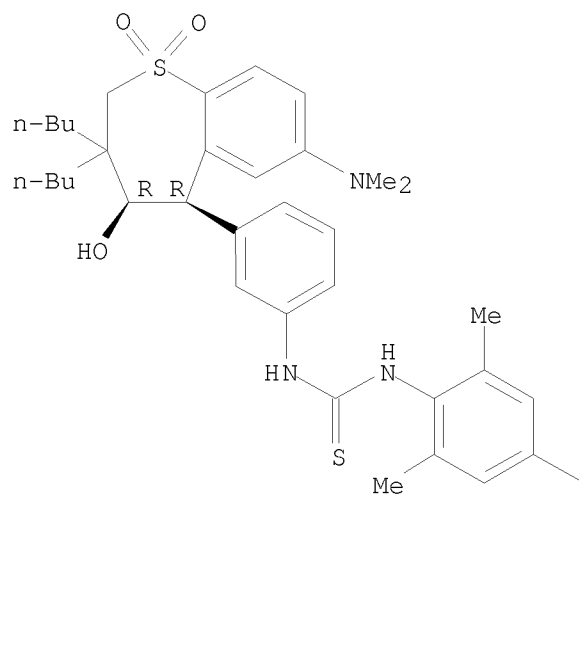
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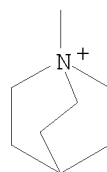
RN 1234631-40-3 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3,5-dimethylphenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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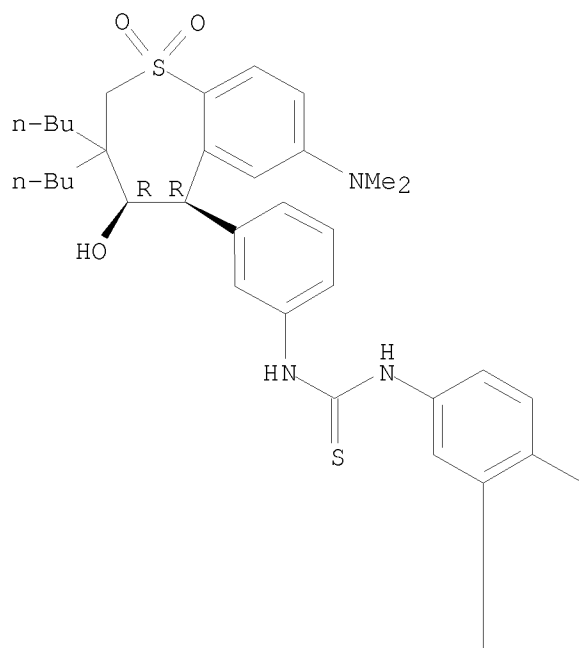
PAGE 2-A



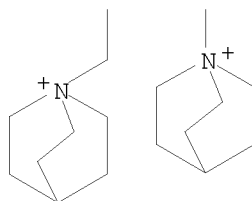
RN 1234631-41-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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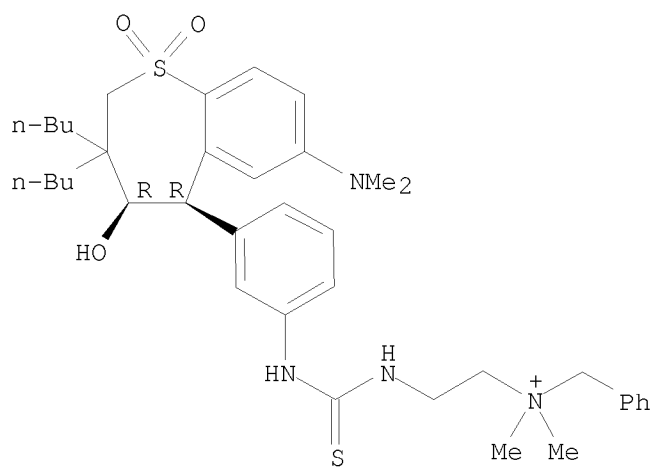
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● 2 Br⁻

RN 1234631-42-5 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

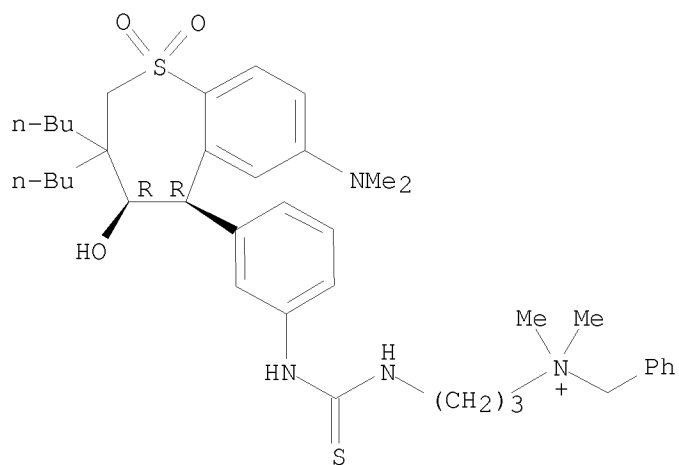
Relative stereochemistry.

10/598,458



RN 1234631-43-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

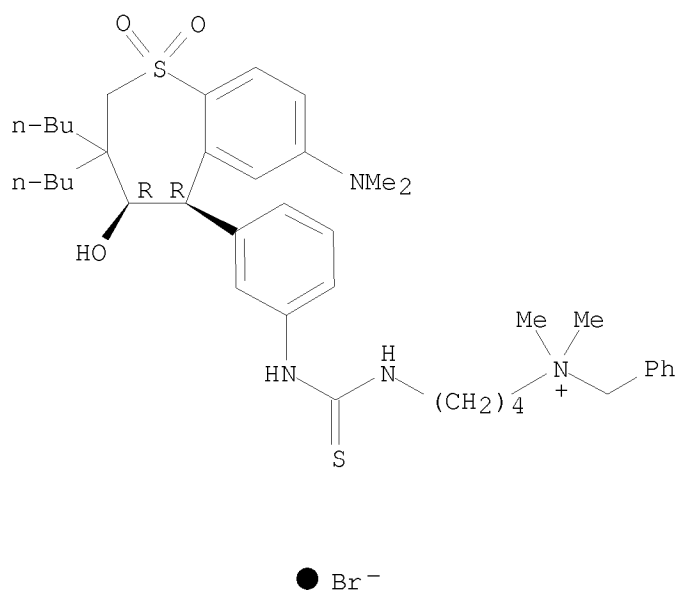
Relative stereochemistry.



RN 1234631-44-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

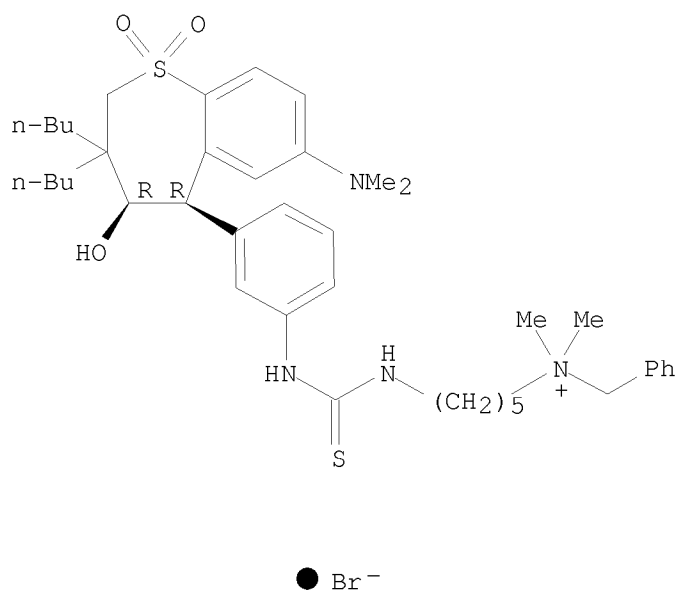
Relative stereochemistry.

10/598,458



RN 1234631-45-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

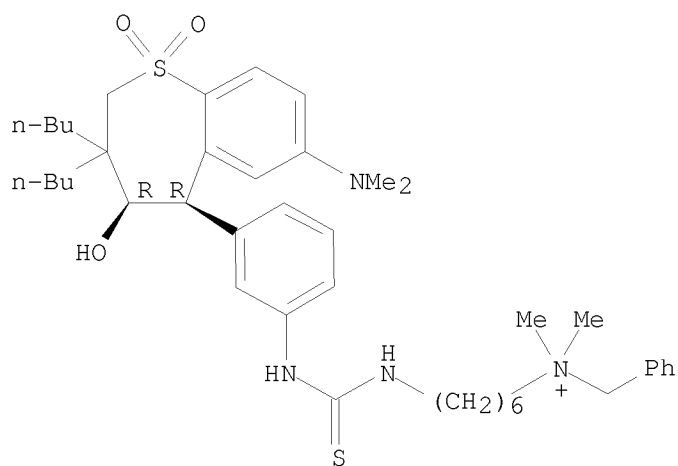
Relative stereochemistry.



RN 1234631-46-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

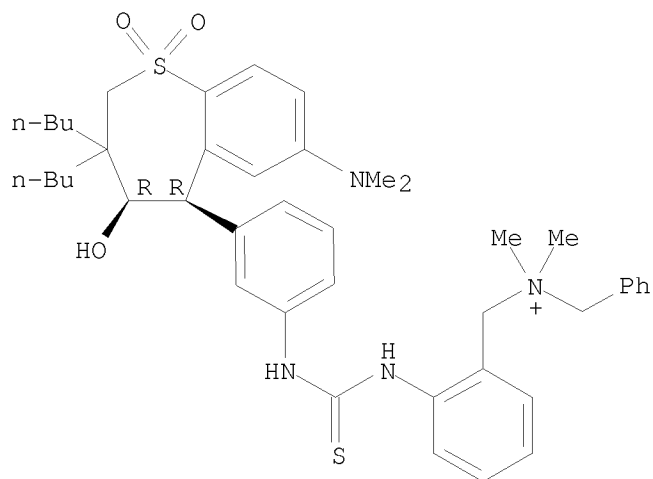
Relative stereochemistry.

10/598,458



RN 1234631-47-0 CAPLUS
 CN Benzenemethanaminium, 2-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.



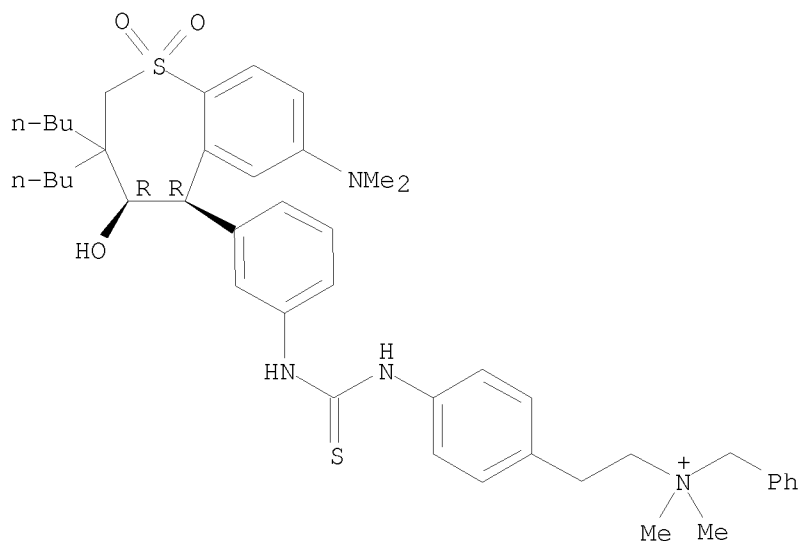
RN 1234631-48-1 CAPLUS
 CN Benzeneethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

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2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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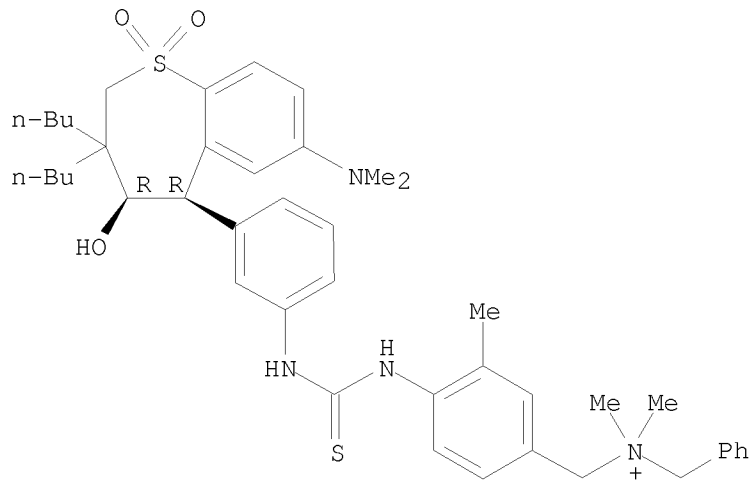


RN 1234631-49-2 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N,3-trimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

10/598,458

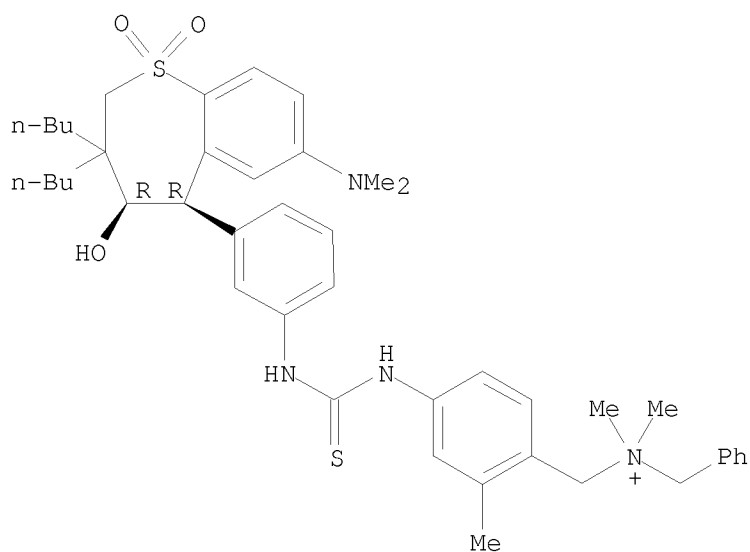


RN 1234631-50-5 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N,2-trimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

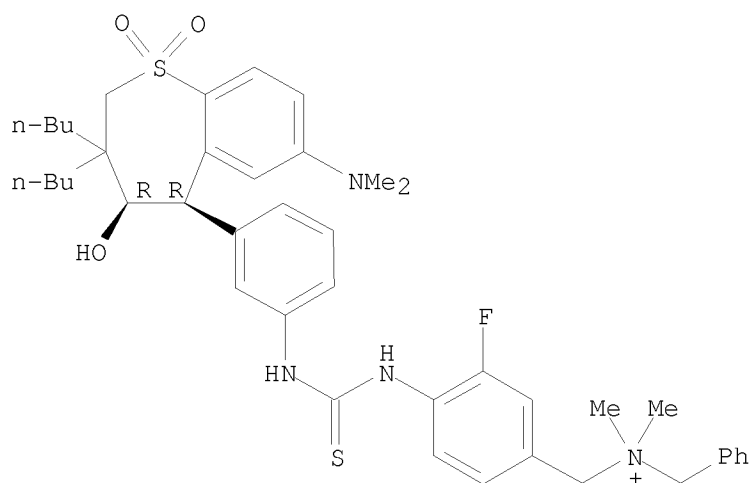
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RN 1234631-51-6 CAPLUS
 CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-fluoro-N,N-dimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

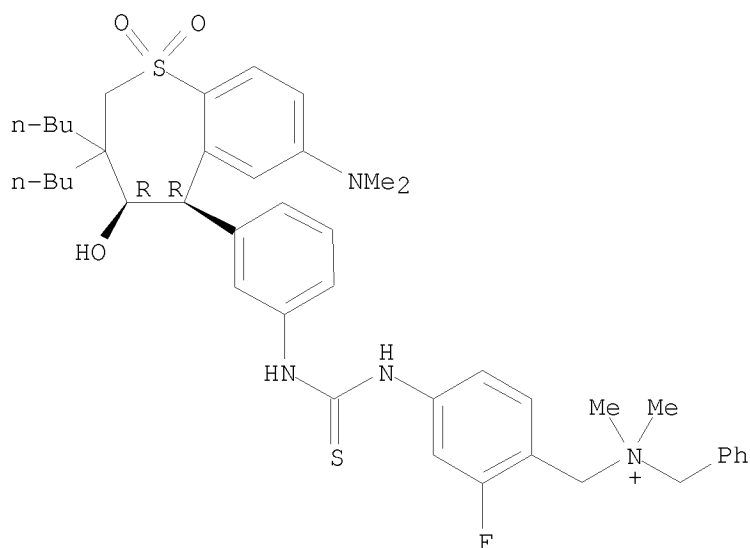
Relative stereochemistry.



RN 1234631-52-7 CAPLUS
 CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-fluoro-N,N-dimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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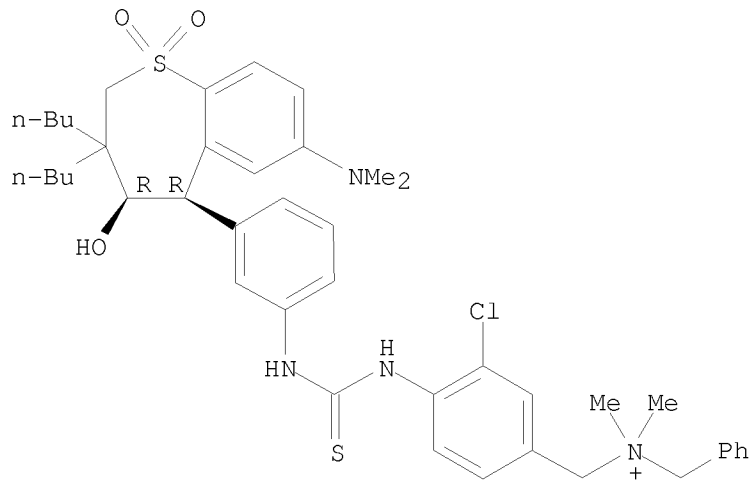
PAGE 2-A



RN 1234631-53-8 CAPLUS

CN Benzenemethanaminium, 3-chloro-4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

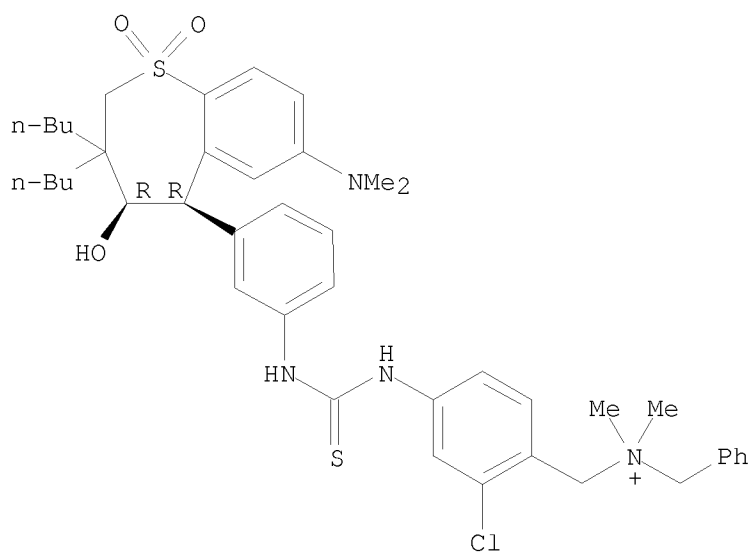


RN 1234631-54-9 CAPLUS

CN Benzenemethanaminium, 2-chloro-4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

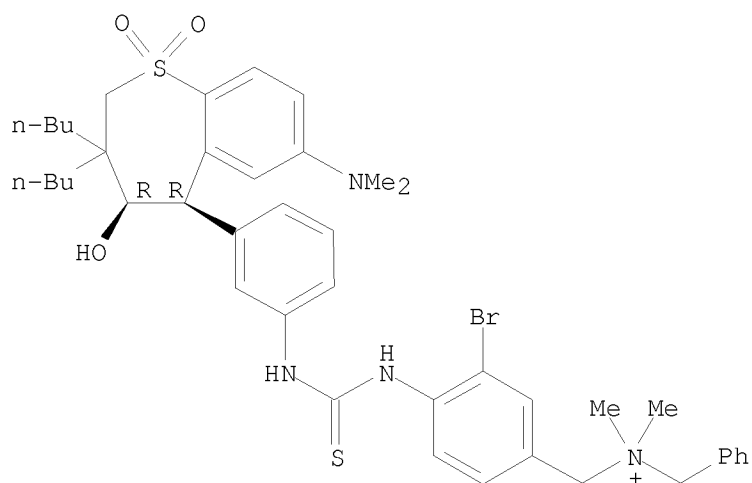
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RN 1234631-55-0 CAPLUS
 CN Benzenemethanaminium, 3-bromo-4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

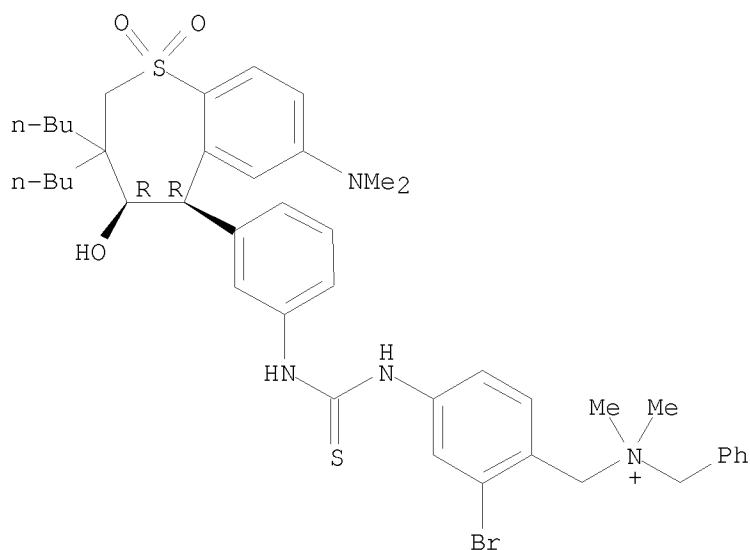
Relative stereochemistry.



RN 1234631-56-1 CAPLUS
 CN Benzenemethanaminium, 2-bromo-4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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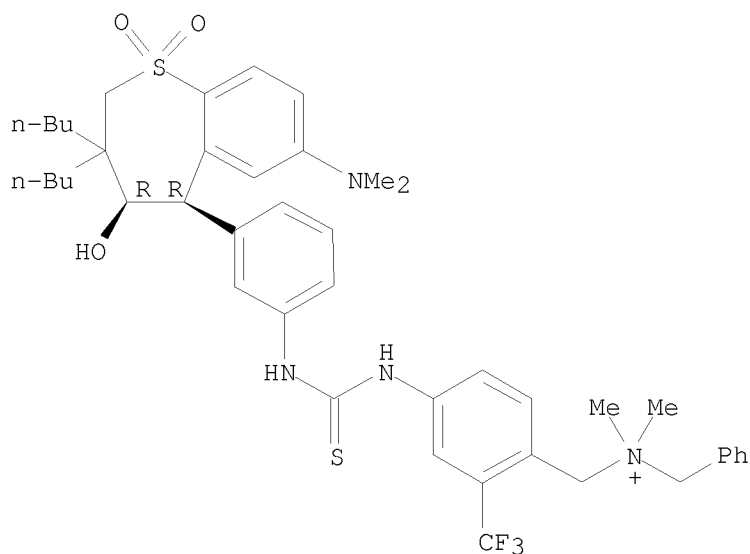


RN 1234631-57-2 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-(phenylmethyl)-2-(trifluoromethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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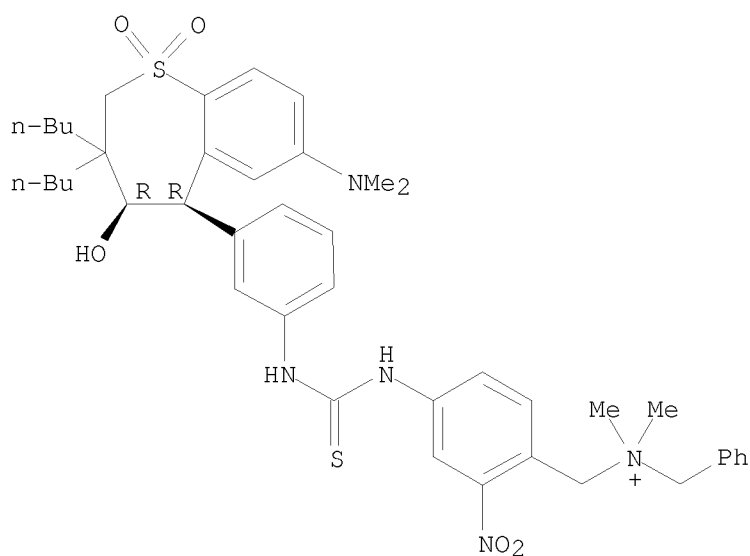


RN 1234631-58-3 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-2-nitro-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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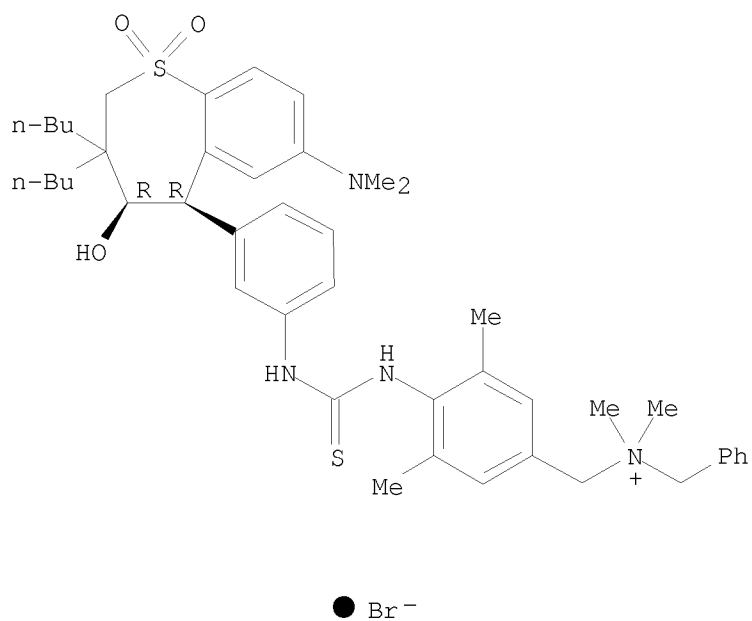
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RN 1234631-59-4 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N,3,5-tetramethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

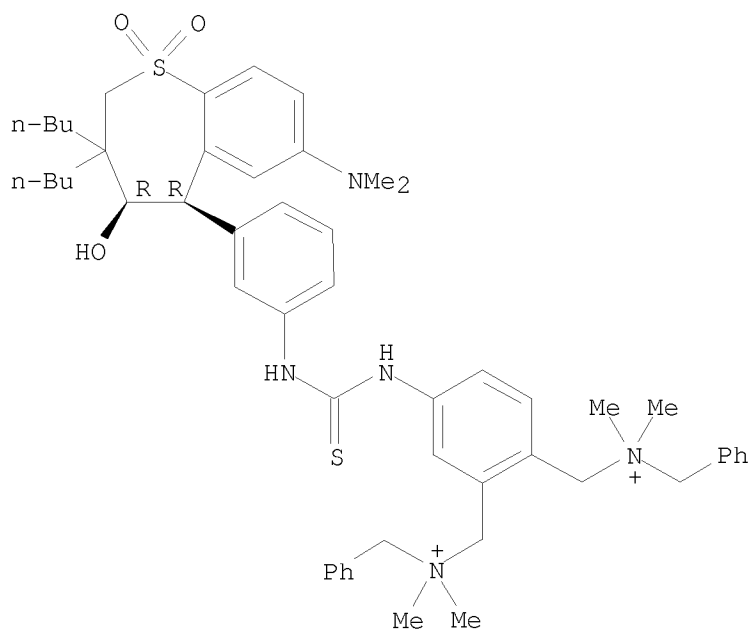


RN 1234631-60-7 CAPLUS

CN 1,2-Benzenedimethanaminium, 4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N1,N1,N2,N2-tetramethyl-N1,N2-bis(phenylmethyl)-, bromide (1:2), rel- (CA INDEX NAME)

Relative stereochemistry.

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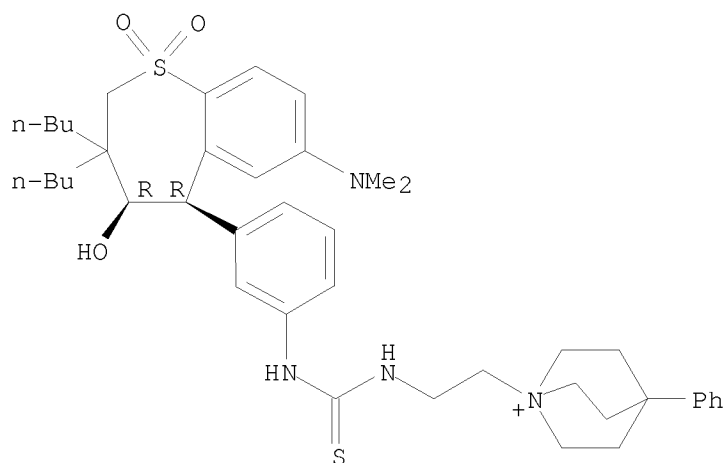


● 2 Br⁻

RN 1234631-61-8 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[2-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]ethyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

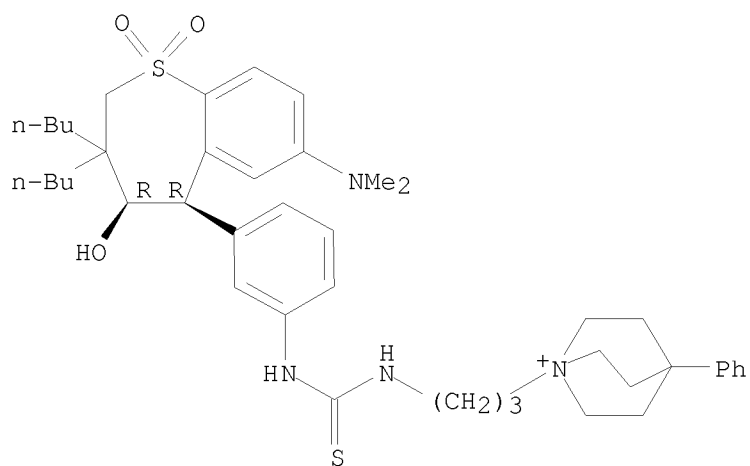
● Br⁻

RN 1234631-62-9 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[3-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]propyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

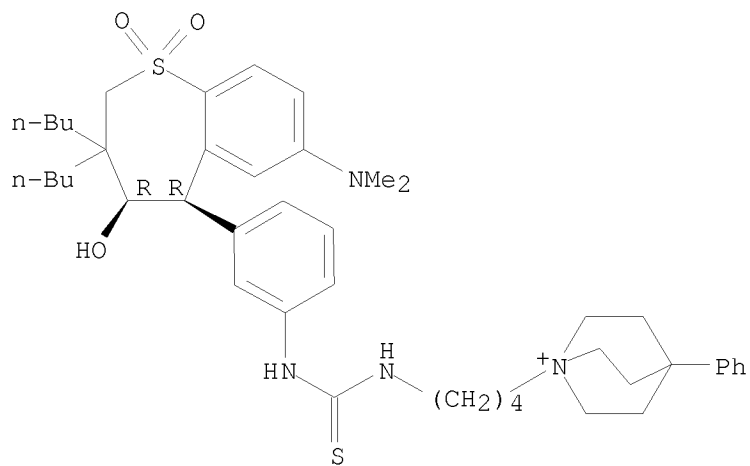
10/598,458



RN 1234631-63-0 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]butyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.



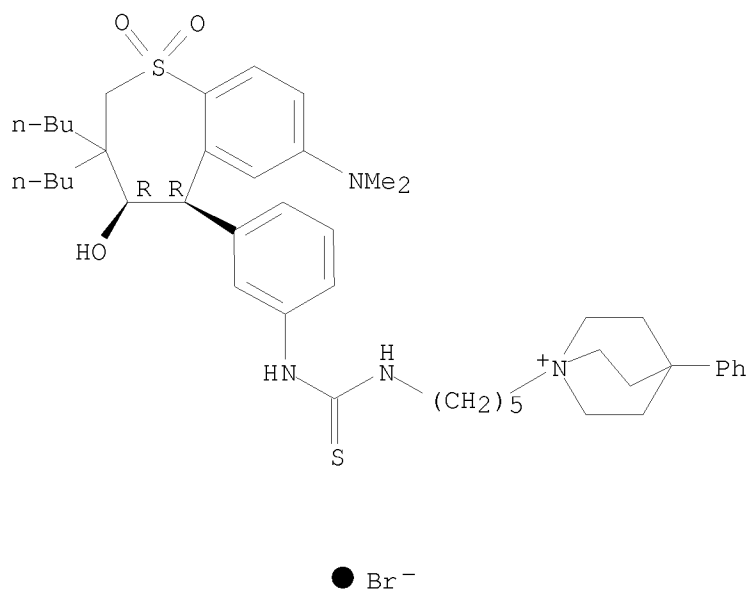
RN 1234631-64-1 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[5-[[[3-[(4R,5R)-3,3-dibutyl-7-

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(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]pentyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

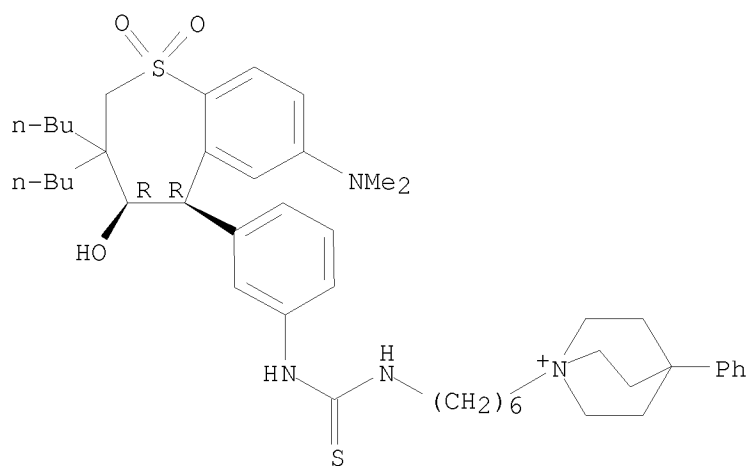


RN 1234631-65-2 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[6-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]hexyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

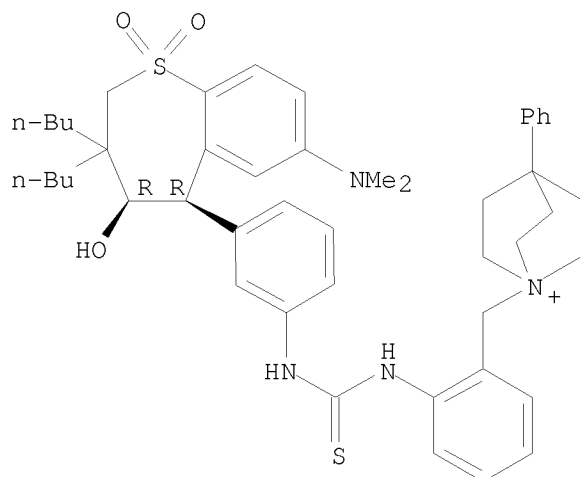
Relative stereochemistry.

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RN 1234631-66-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

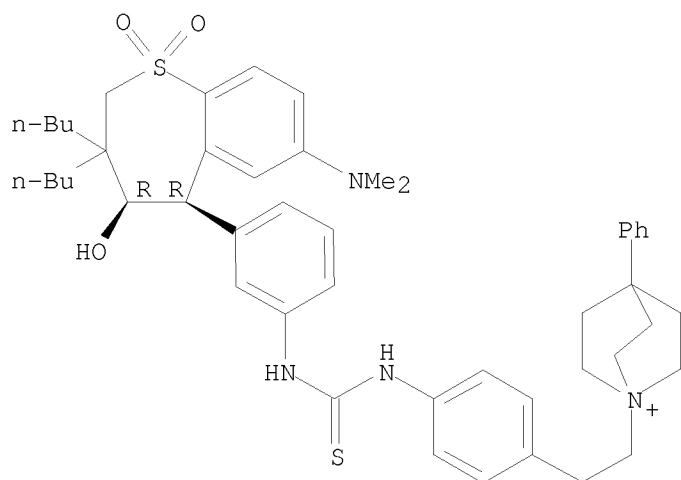
Relative stereochemistry.



RN 1234631-67-4 CAPLUS
CN 1-Azoniabicyclo[2.2.2]octane, 1-[2-[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]ethyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

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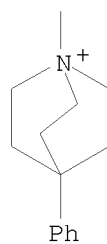
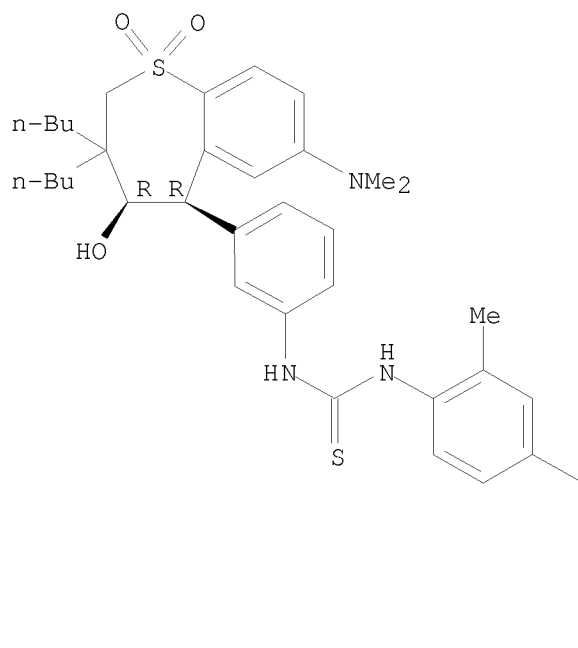
Relative stereochemistry.



RN 1234631-68-5 CAPLUS

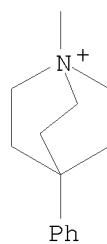
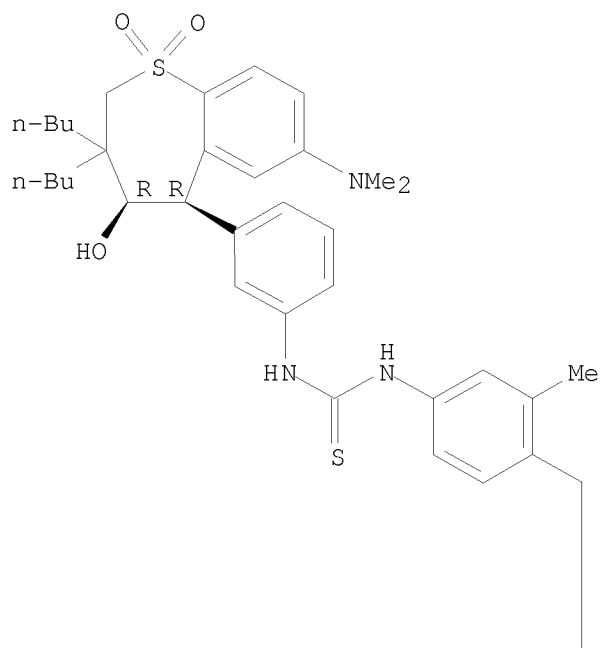
CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-methylphenyl]methyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.



RN 1234631-69-6 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-methylphenyl]methyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

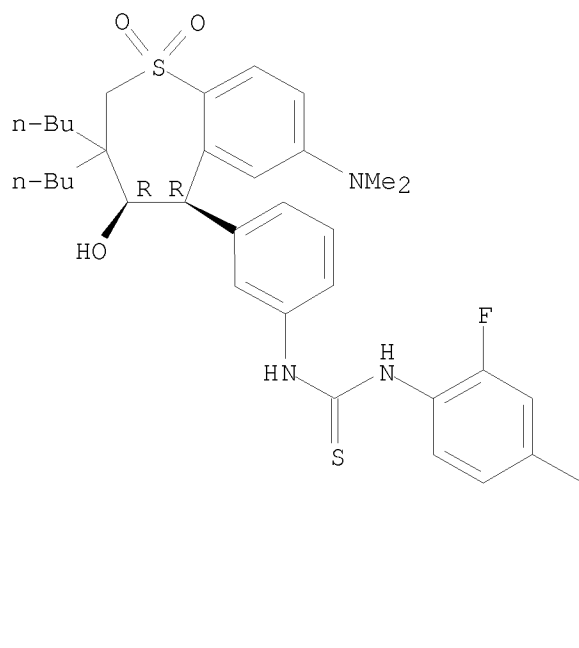
Relative stereochemistry.



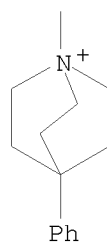
RN 1234631-70-9 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-fluorophenyl]methyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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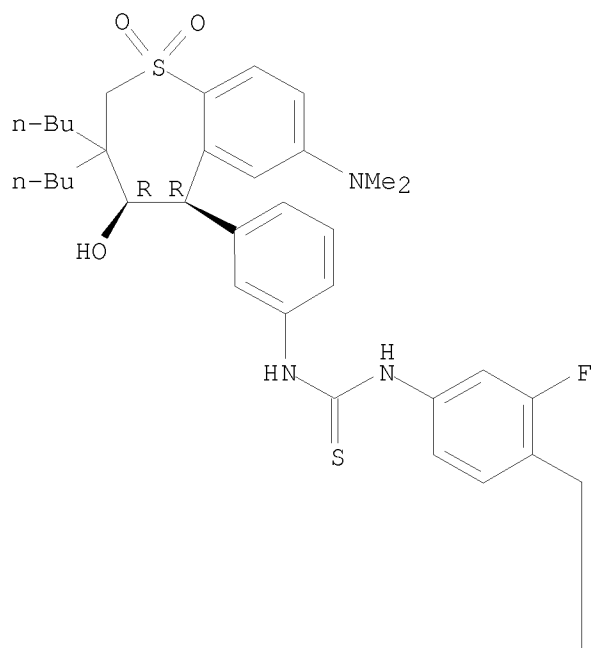
PAGE 2-A



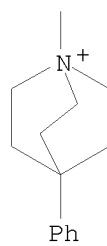
RN 1234631-71-0 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-fluorophenyl]methyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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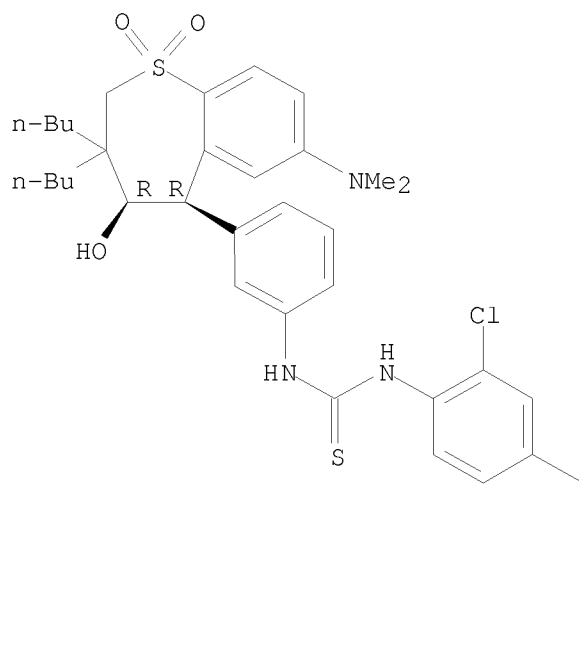
PAGE 2-A



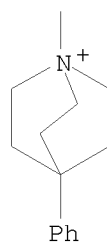
RN 1234631-72-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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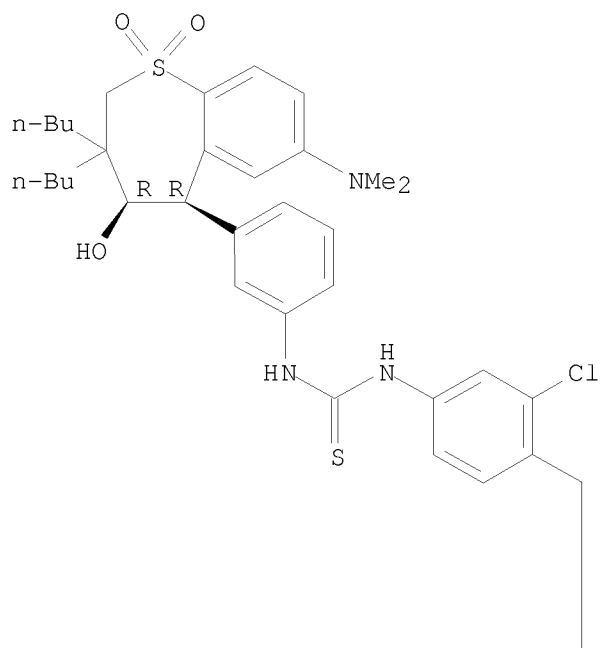
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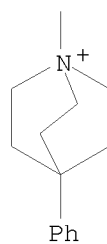
RN 1234631-73-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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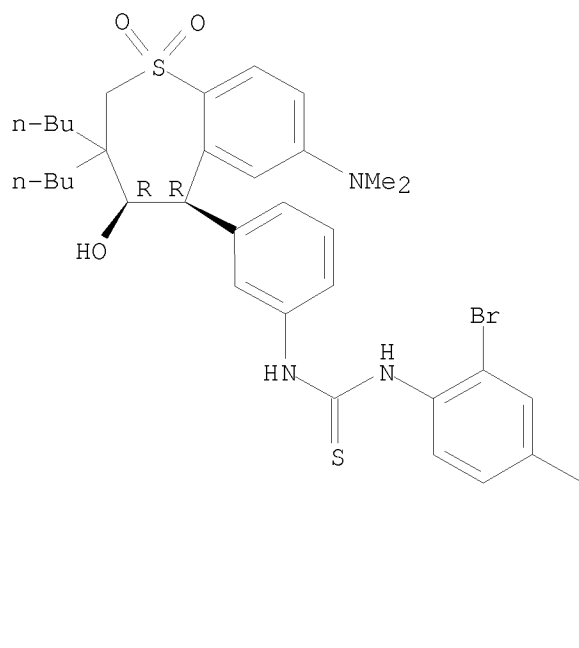
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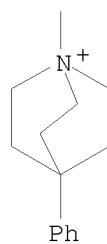
RN 1234631-74-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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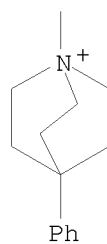
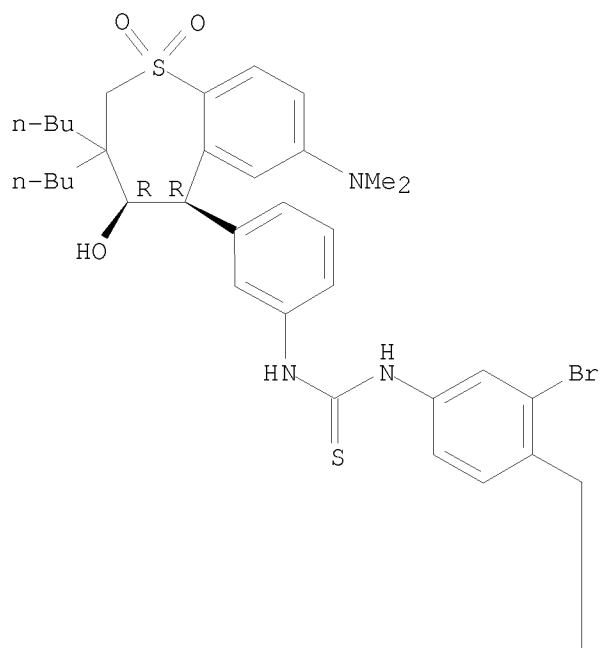


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RN 1234631-75-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

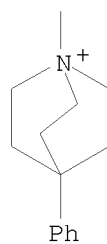
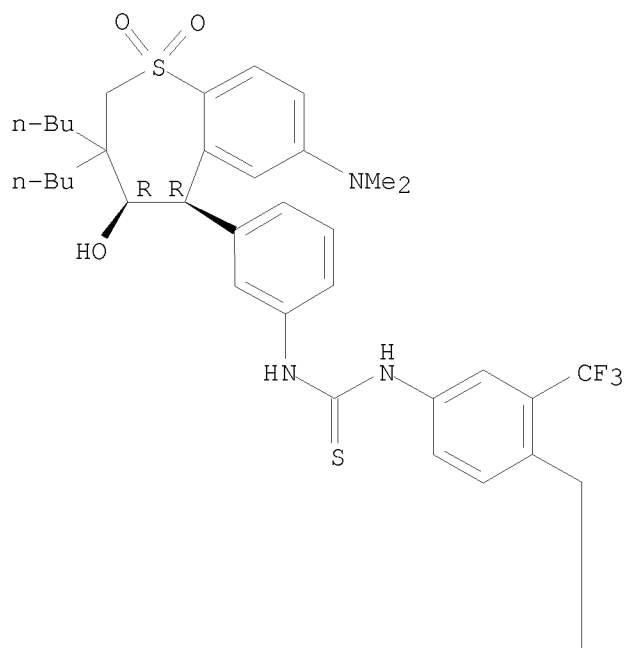
Relative stereochemistry.



RN 1234631-76-5 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-(trifluoromethyl)phenyl]methyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

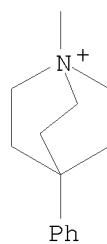
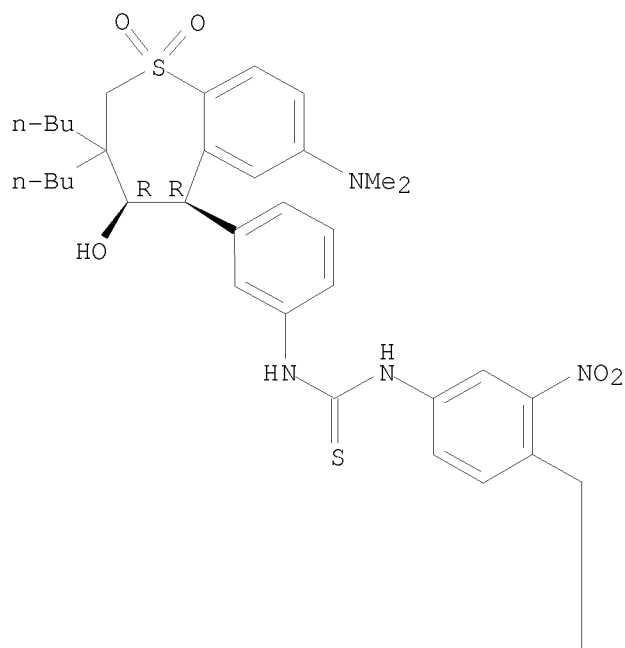
Relative stereochemistry.



RN 1234631-77-6 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-nitrophenyl]methyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

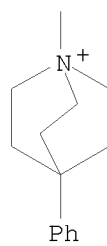
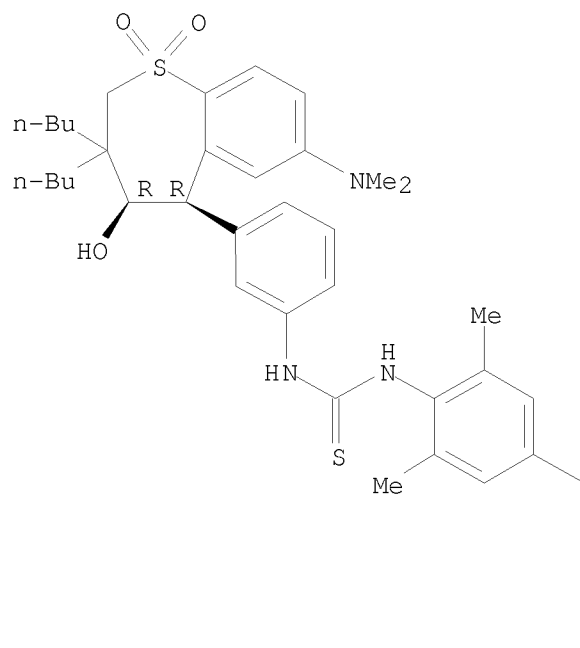
Relative stereochemistry.



RN 1234631-78-7 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3,5-dimethylphenyl]methyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

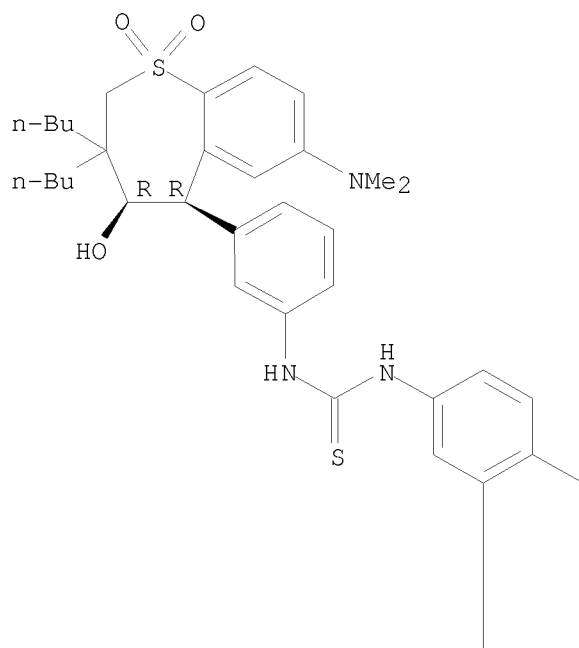
Relative stereochemistry.



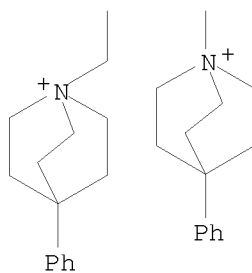
RN 1234631-79-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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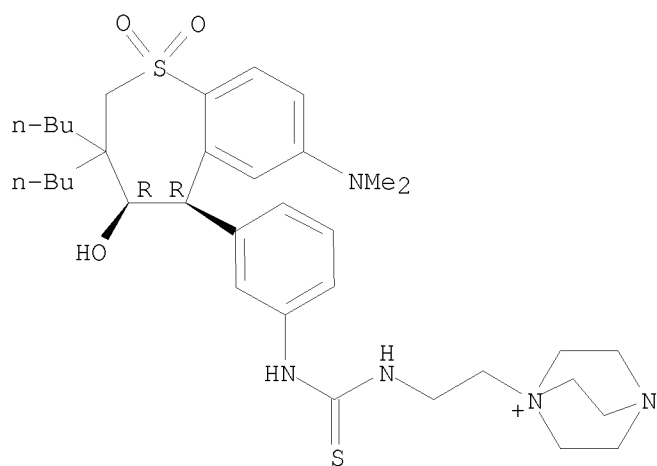
PAGE 2-A

● 2 Br⁻

RN 1234631-80-1 CAPLUS
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
 1-[2-[[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]ethyl]-, bromide (1:1), rel- (CA INDEX NAME)

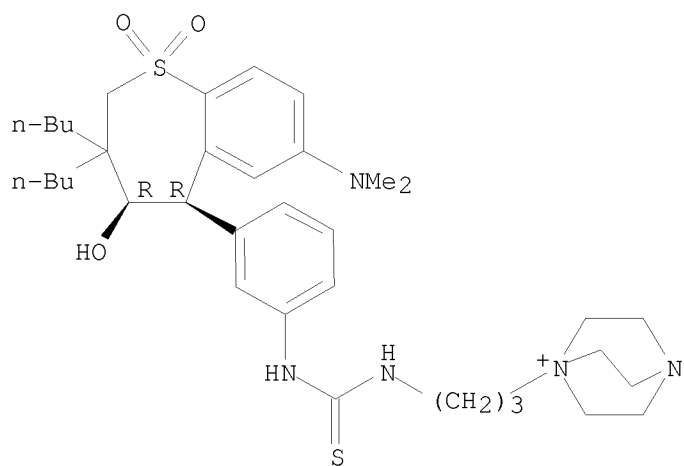
Relative stereochemistry.

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RN 1234631-82-3 CAPLUS
CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
1-[3-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-
hydroxy-1,1-dioxido-1-benzothiepin-5-
yl]phenyl]amino]thioxomethyl]amino]propyl]-, bromide (1:1), rel- (CA
INDEX NAME)

Relative stereochemistry.

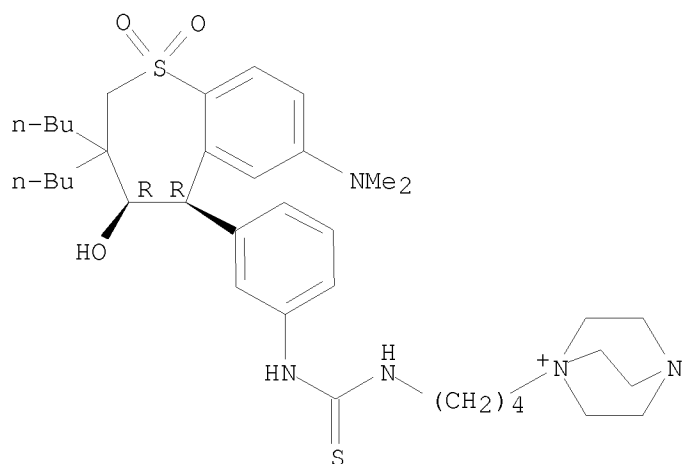


RN 1234631-83-4 CAPLUS

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CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
1-[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-
hydroxy-1,1-dioxido-1-benzothiepin-5-
yl]phenyl]amino]thioxomethyl]amino]butyl]-, bromide (1:1), rel- (CA INDEX
NAME)

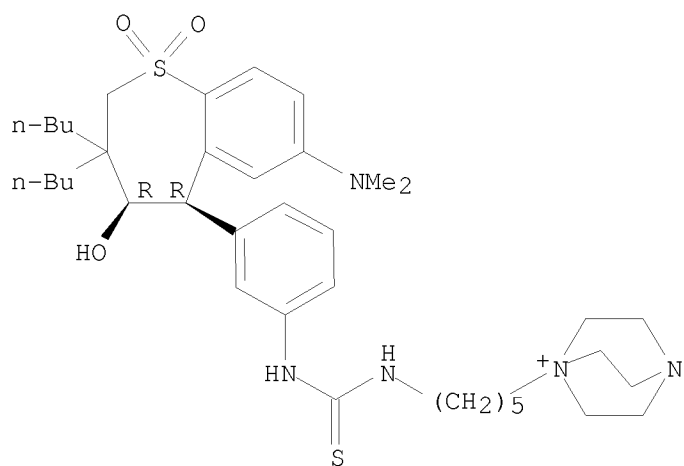
Relative stereochemistry.



RN 1234631-84-5 CAPLUS
CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
1-[5-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-
hydroxy-1,1-dioxido-1-benzothiepin-5-
yl]phenyl]amino]thioxomethyl]amino]pentyl]-, bromide (1:1), rel- (CA
INDEX NAME)

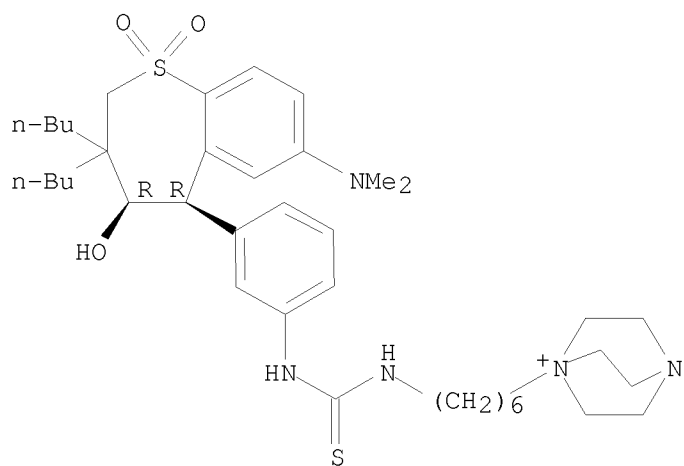
Relative stereochemistry.

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RN 1234631-85-6 CAPLUS
CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
1-[6-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-
hydroxy-1,1-dioxido-1-benzothiepin-5-
yl]phenyl]amino]thioxomethyl]amino]hexyl]-, bromide (1:1), rel- (CA INDEX
NAME)

Relative stereochemistry.

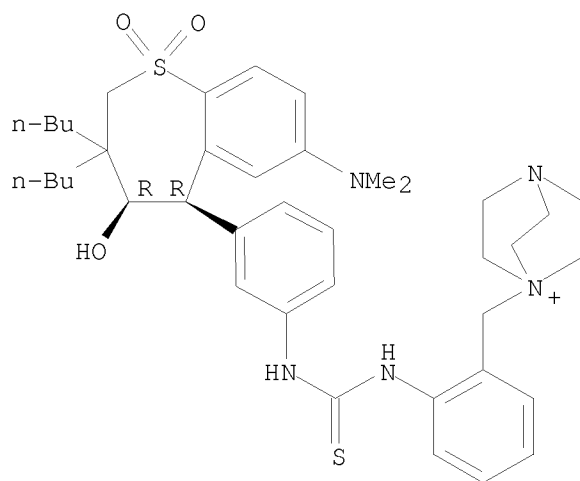


RN 1234631-86-7 CAPLUS

10/598,458

CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.



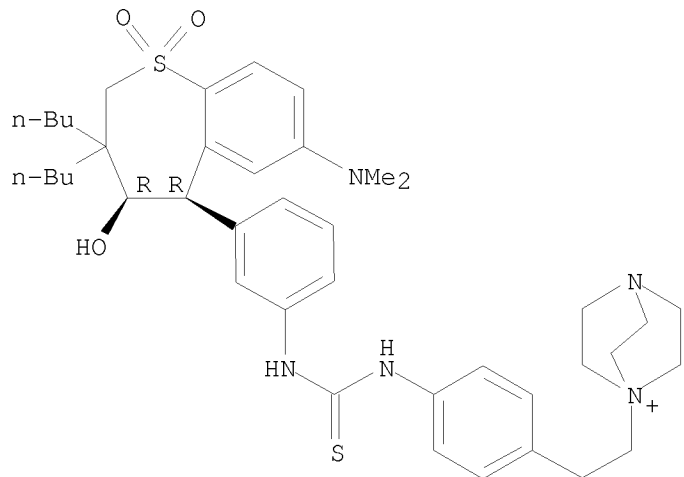
● Br⁻

RN 1234631-87-8 CAPLUS

CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
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hydroxy-1,1-dioxido-1-benzothiepin-5-
yl]phenyl]amino]thioxomethyl]amino]phenyl]ethyl]-, bromide (1:1), rel-
(CA INDEX NAME)

Relative stereochemistry.

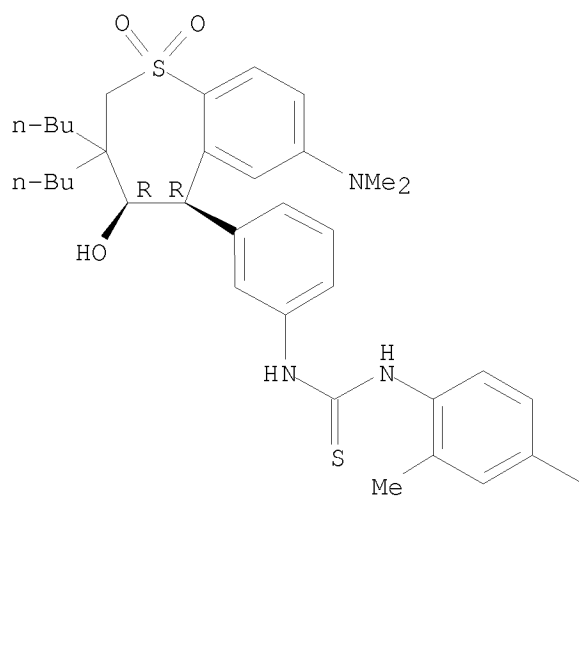
10/598,458



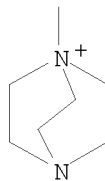
RN 1234631-88-9 CAPLUS
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-methylphenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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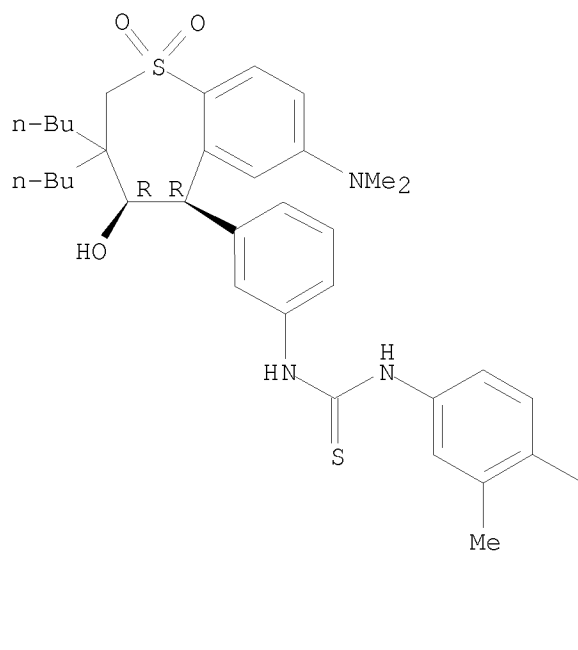
PAGE 2-A



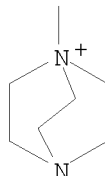
RN 1234631-89-0 CAPLUS
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-methylphenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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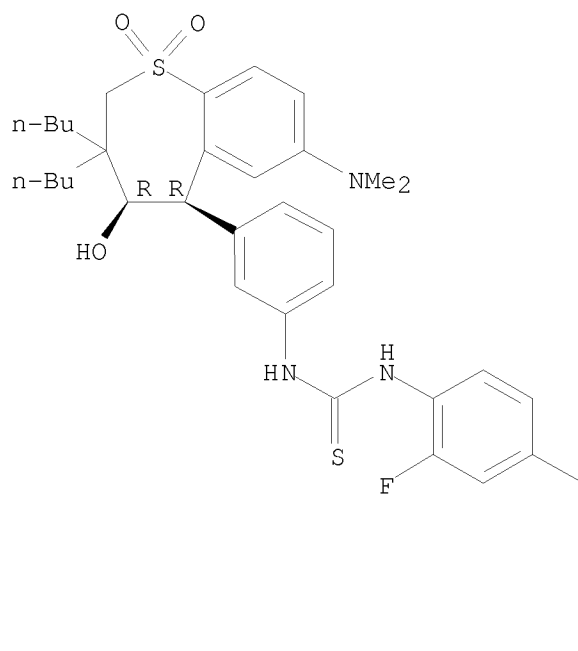
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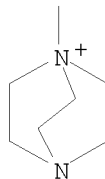
RN 1234631-90-3 CAPLUS
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-fluorophenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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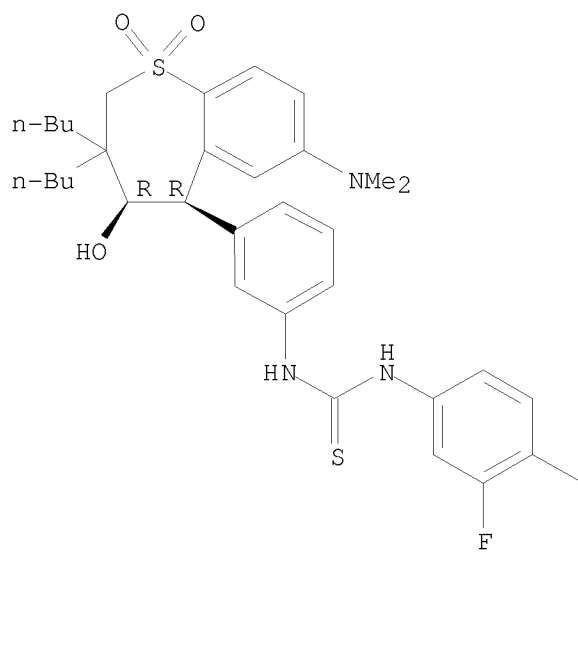
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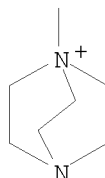
RN 1234631-91-4 CAPLUS
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-fluorophenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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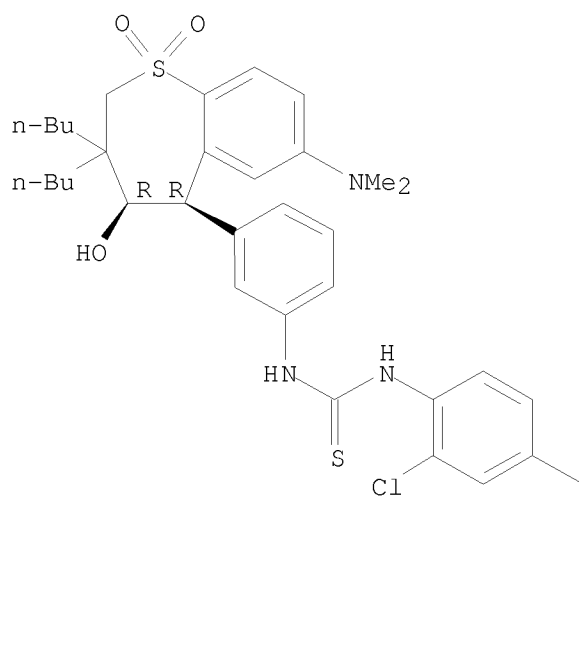
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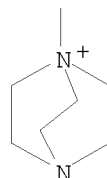
RN 1234631-92-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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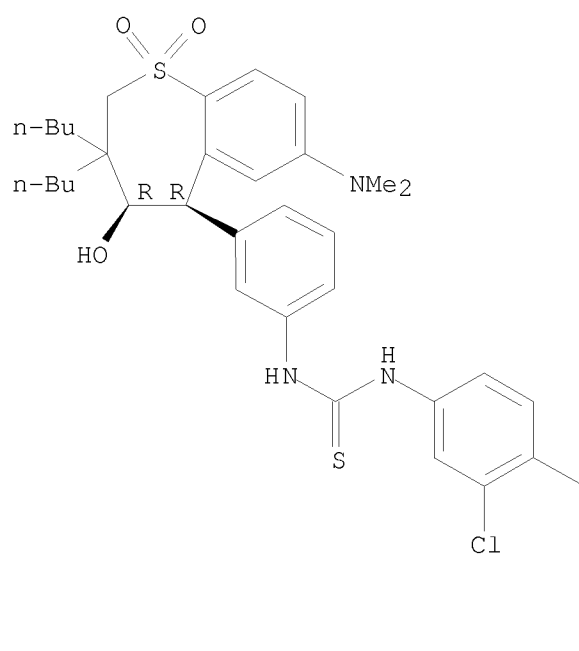
PAGE 2-A



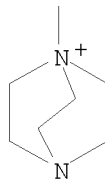
RN 1234631-93-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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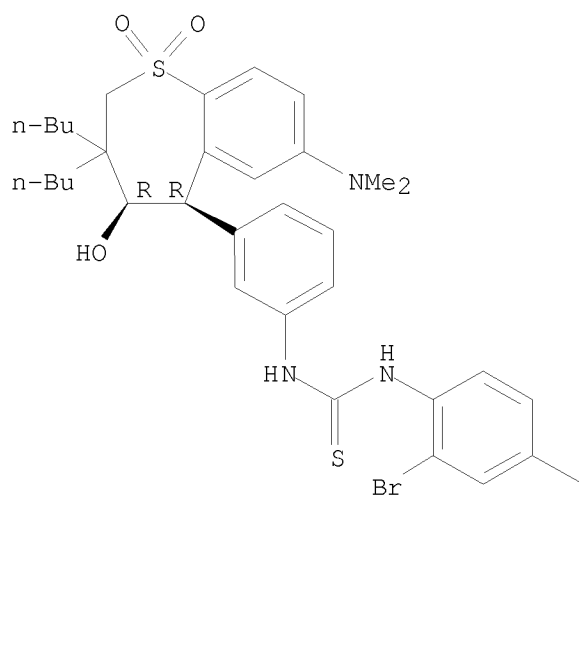
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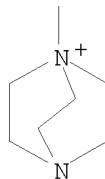
RN 1234631-94-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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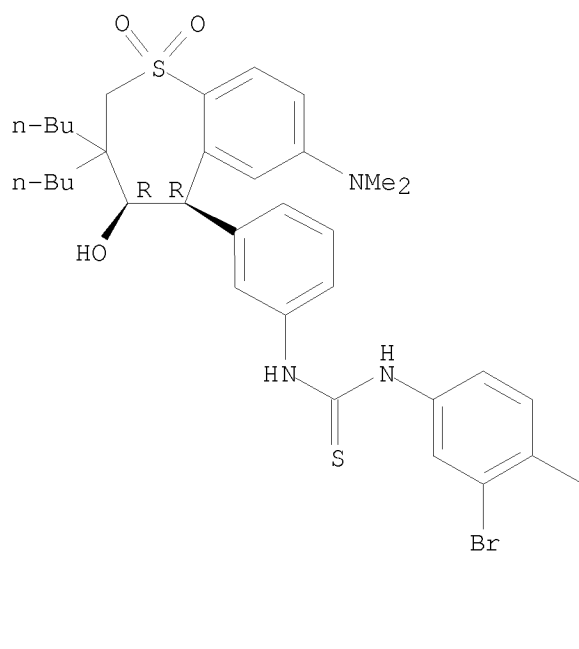
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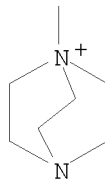
RN 1234631-95-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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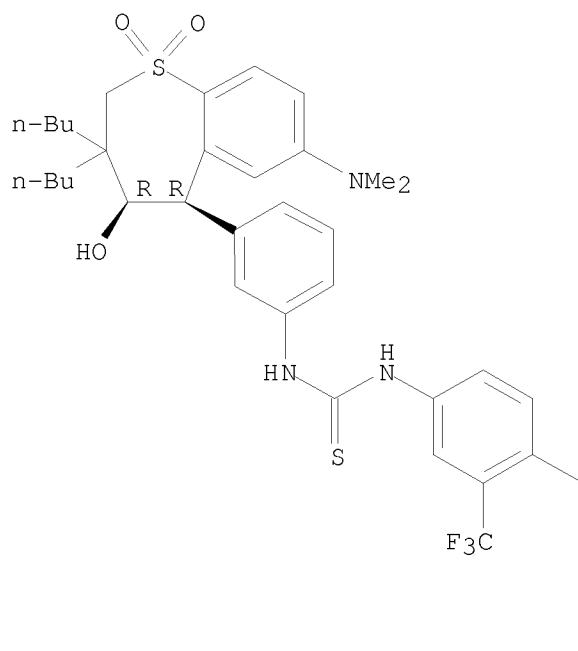
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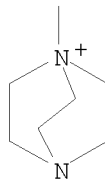
RN 1234631-96-9 CAPLUS
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-(trifluoromethyl)phenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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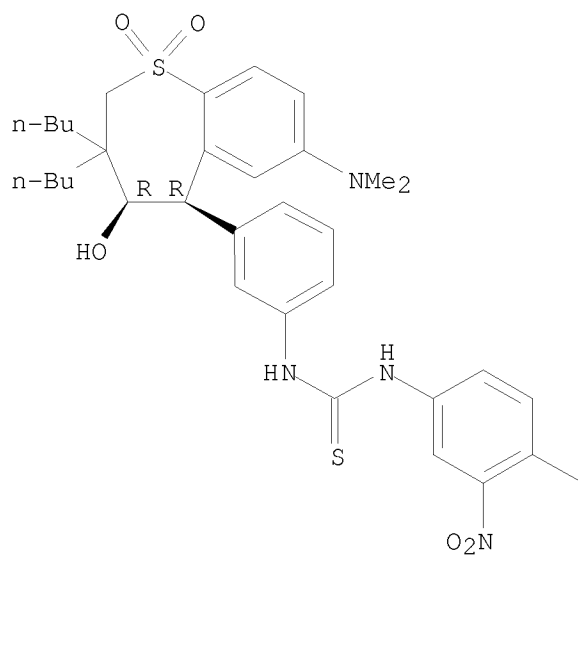
PAGE 2-A



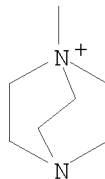
RN 1234631-98-1 CAPLUS
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-nitrophenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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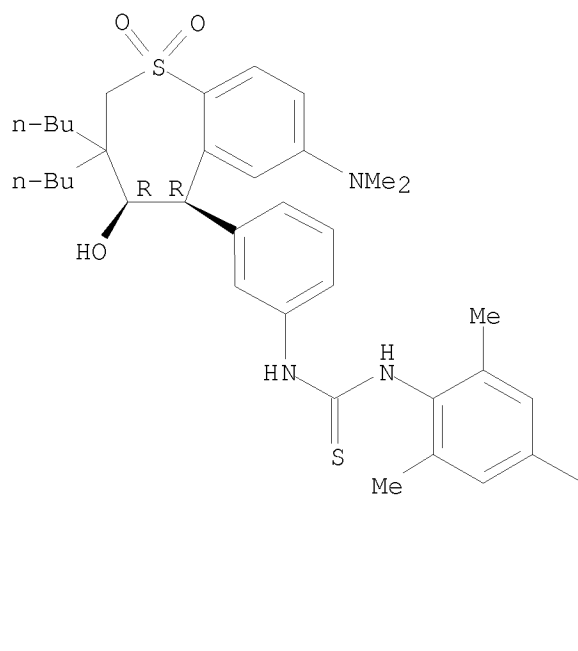
PAGE 2-A



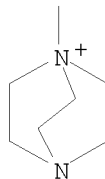
RN 1234632-00-8 CAPLUS
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3,5-dimethylphenyl]methyl]-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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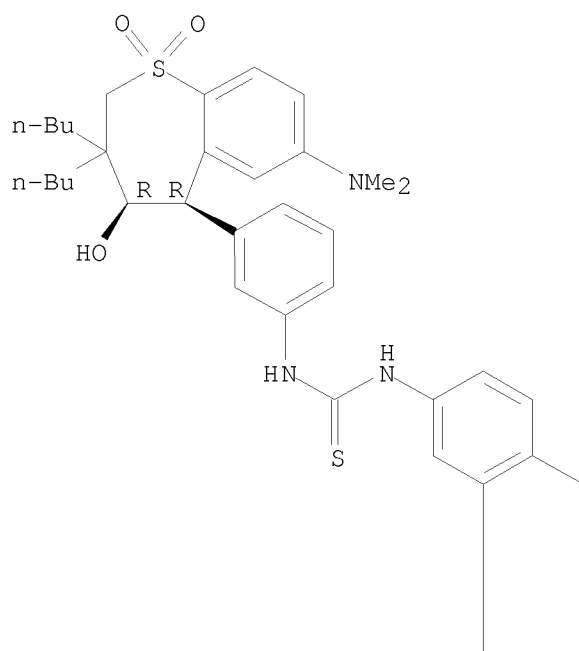
PAGE 2-A

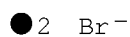
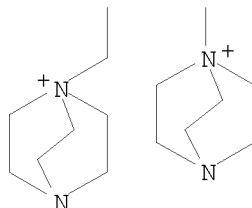


RN 1234632-02-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

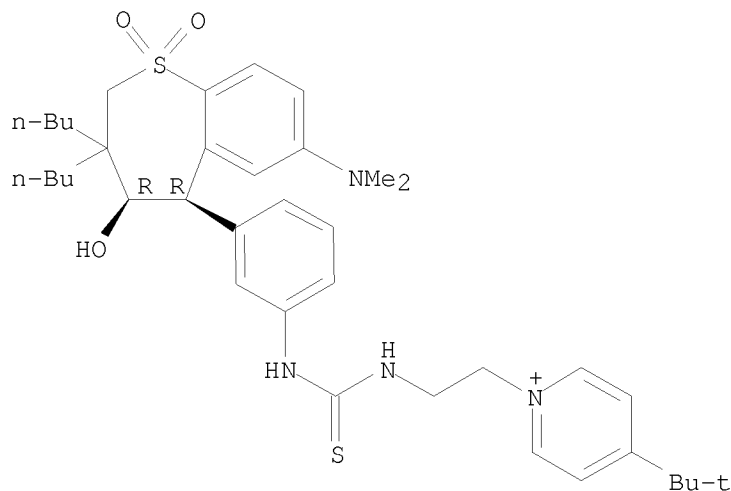
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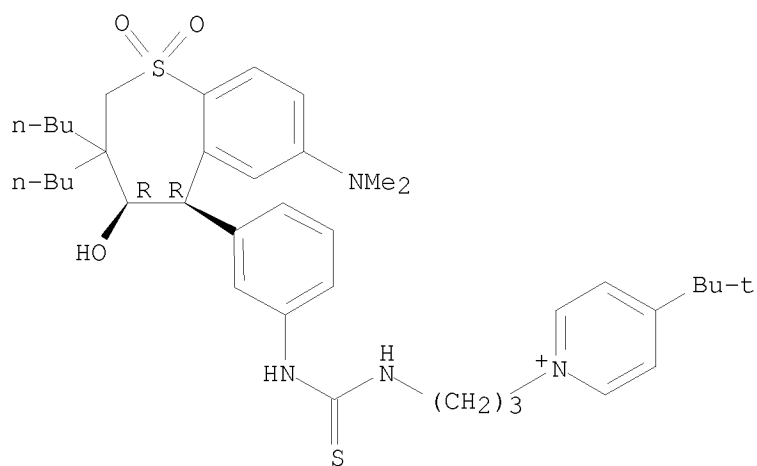
RN 1234632-04-2 CAPLUS
 CN Pyridinium, 1-[2-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]ethyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.



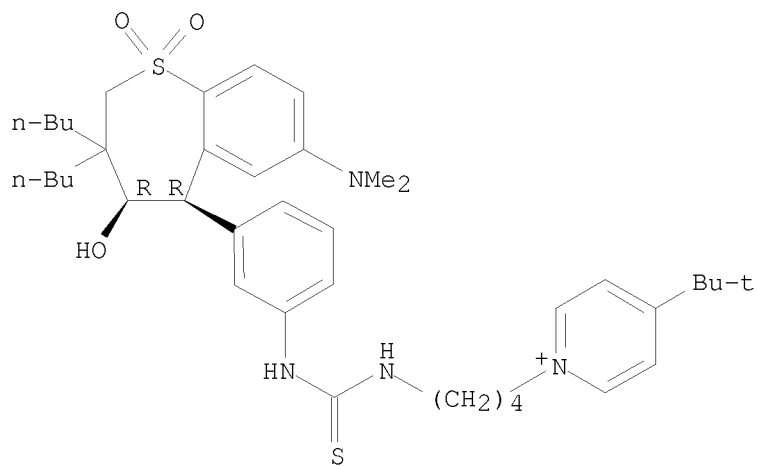
RN 1234632-05-3 CAPLUS
 CN Pyridinium, 1-[3-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]propyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.



RN 1234632-06-4 CAPLUS
 CN Pyridinium, 1-[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]butyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

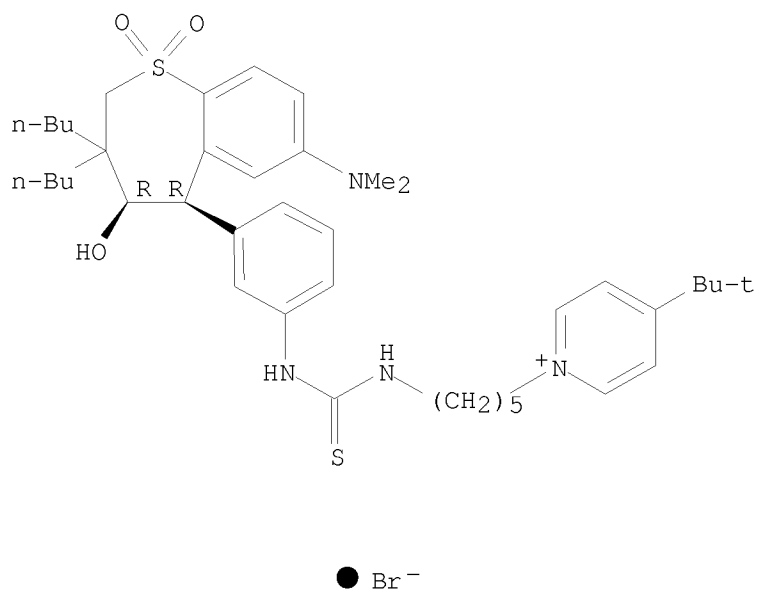


RN 1234632-07-5 CAPLUS
 CN Pyridinium, 1-[5-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-

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tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]pentyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

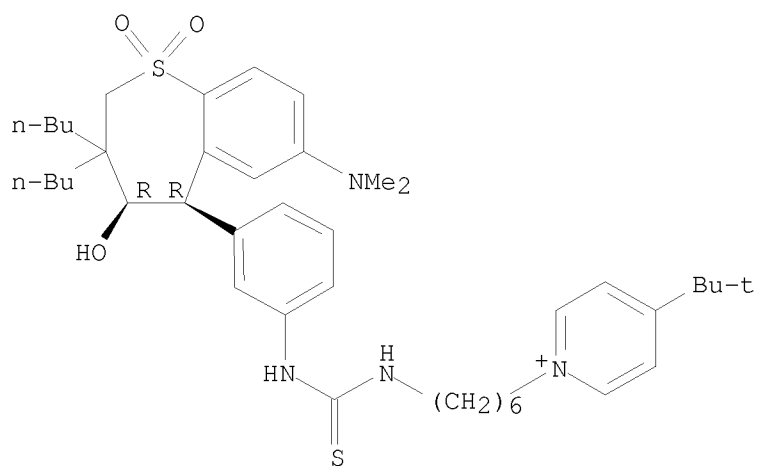
Relative stereochemistry.



RN 1234632-08-6 CAPLUS
CN Pyridinium, 1-[6-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]hexyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

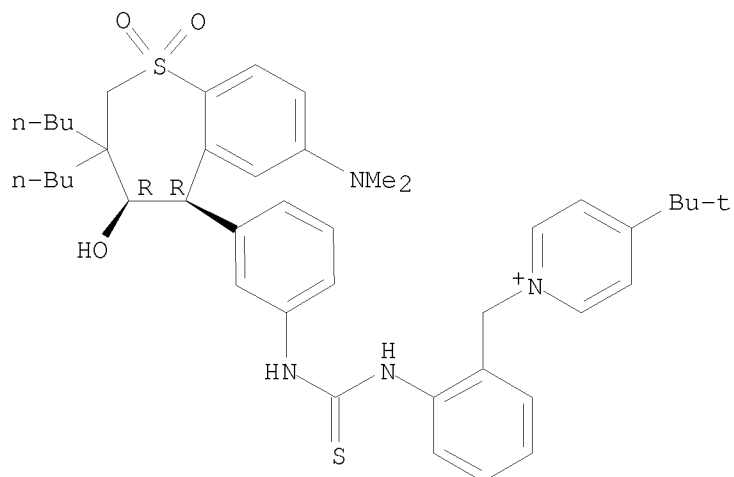
Relative stereochemistry.

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RN 1234632-09-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

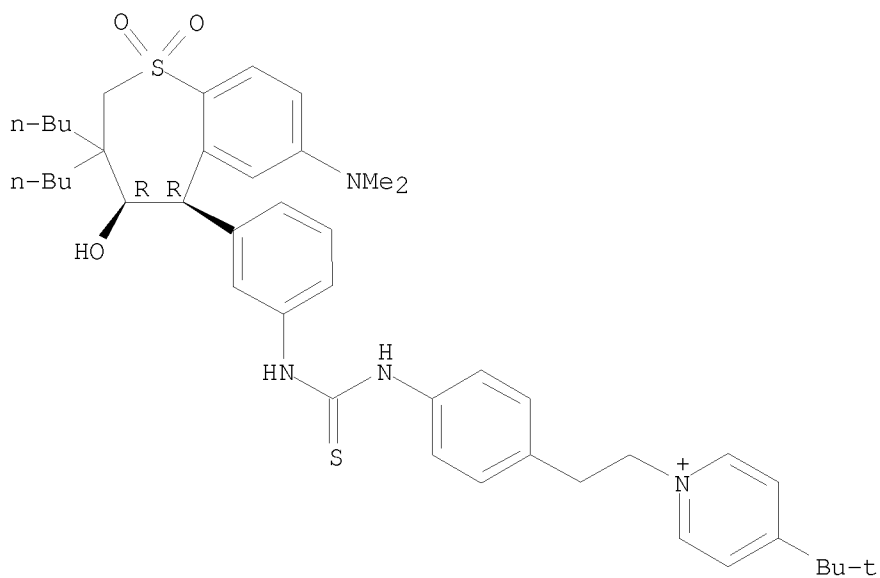


RN 1234632-10-0 CAPLUS
CN Pyridinium, 1-[2-[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]ethyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

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Relative stereochemistry.

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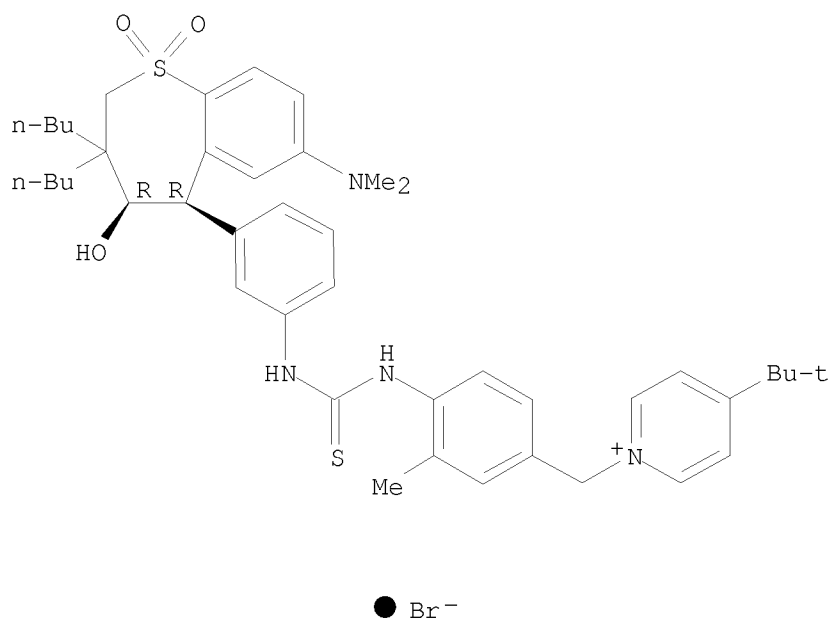


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RN 1234632-11-1 CAPLUS
CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-methylphenyl]methyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

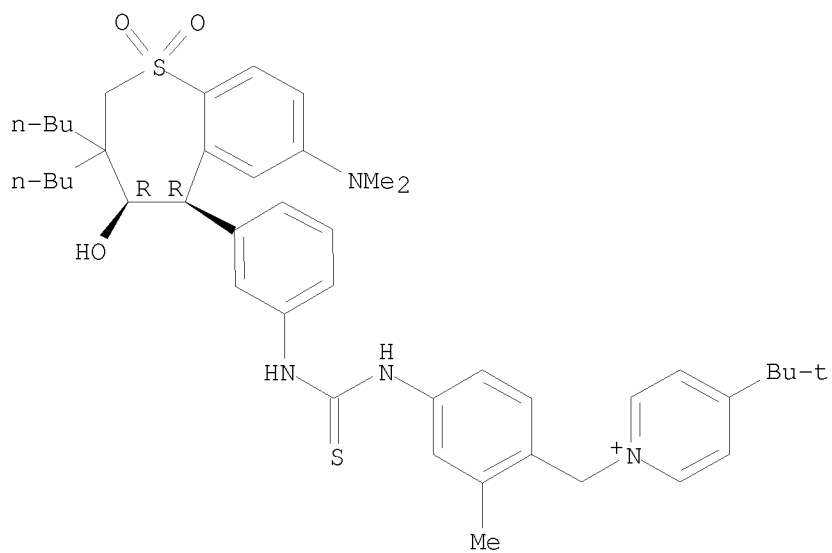
Relative stereochemistry.



RN 1234632-12-2 CAPLUS
 CN Pyridinium, 1-[[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-methylphenyl]methyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

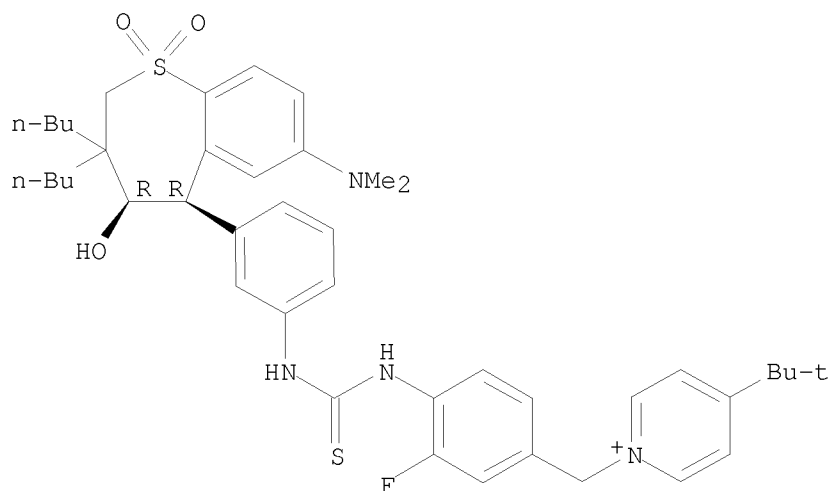
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RN 1234632-13-3 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-fluorophenyl]methyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

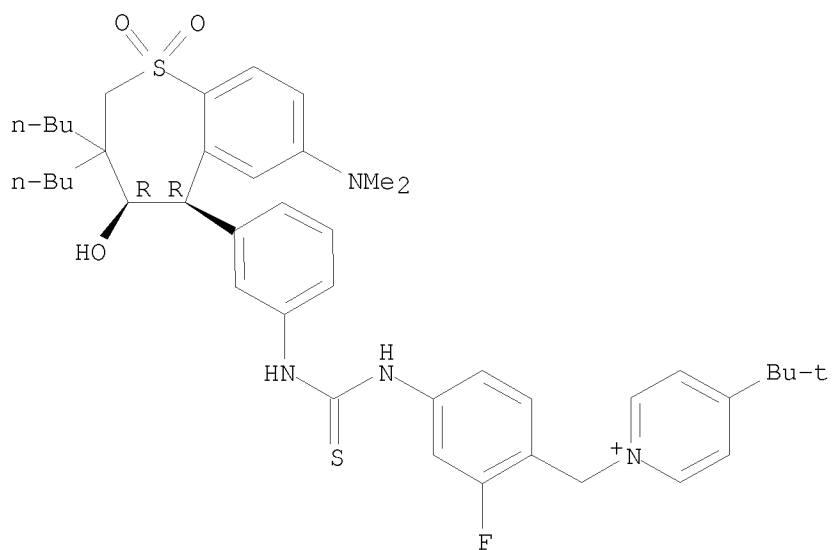
Relative stereochemistry.



RN 1234632-14-4 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-fluorophenyl]methyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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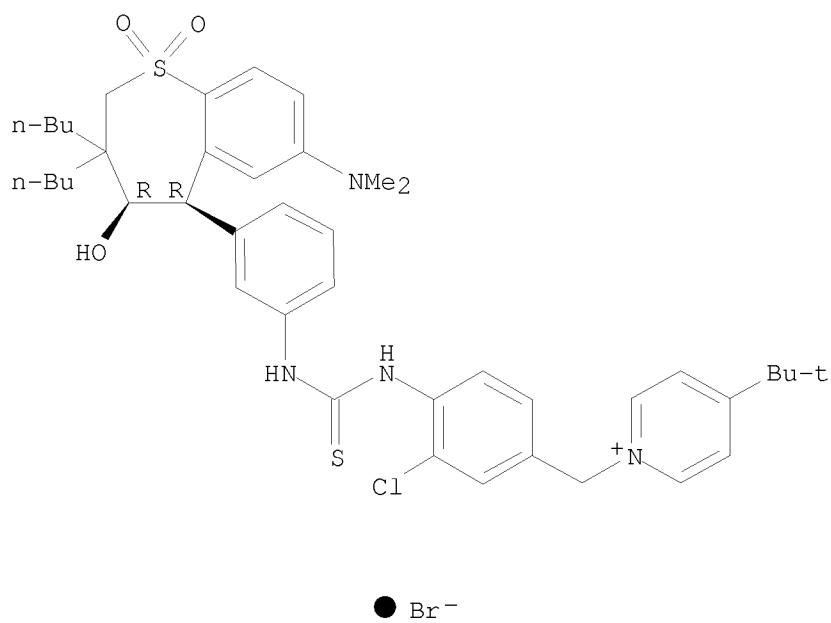
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RN 1234632-15-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

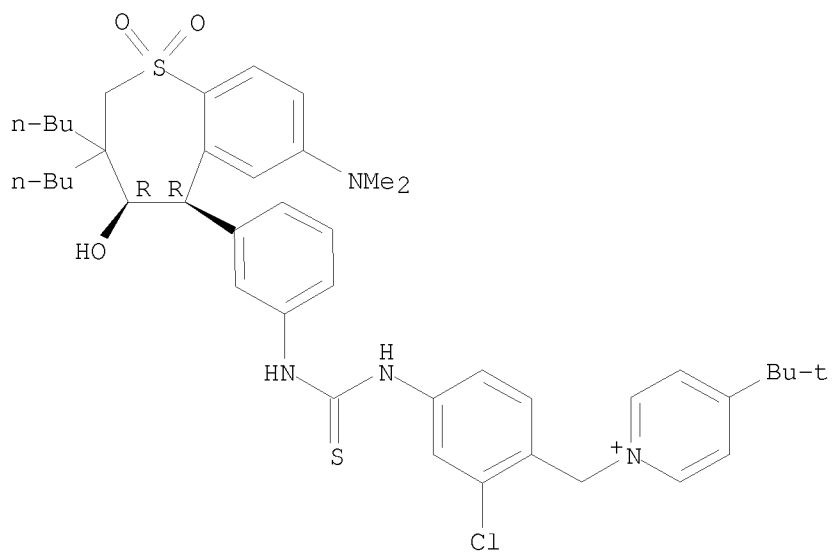
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RN 1234632-16-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

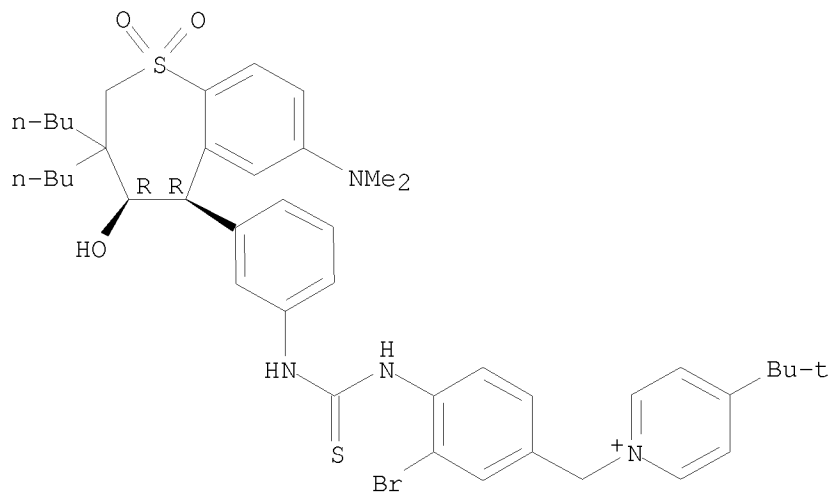
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RN 1234632-17-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

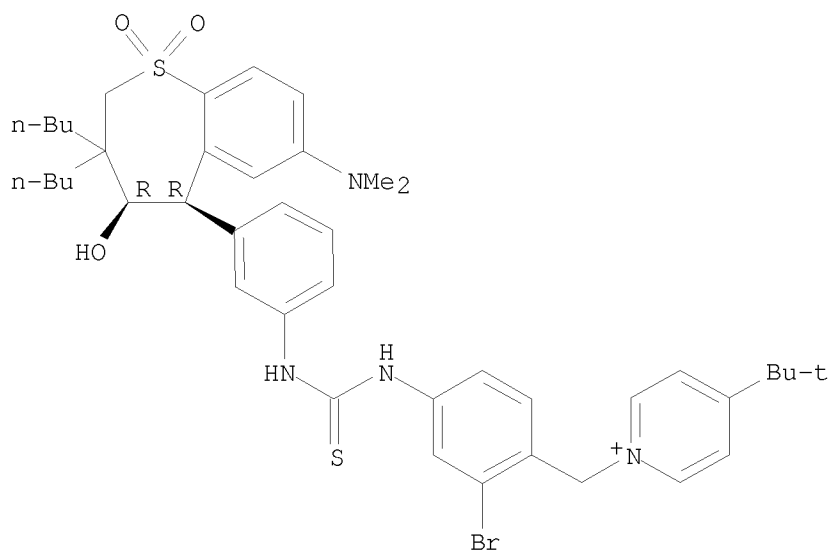
Relative stereochemistry.



RN 1234632-18-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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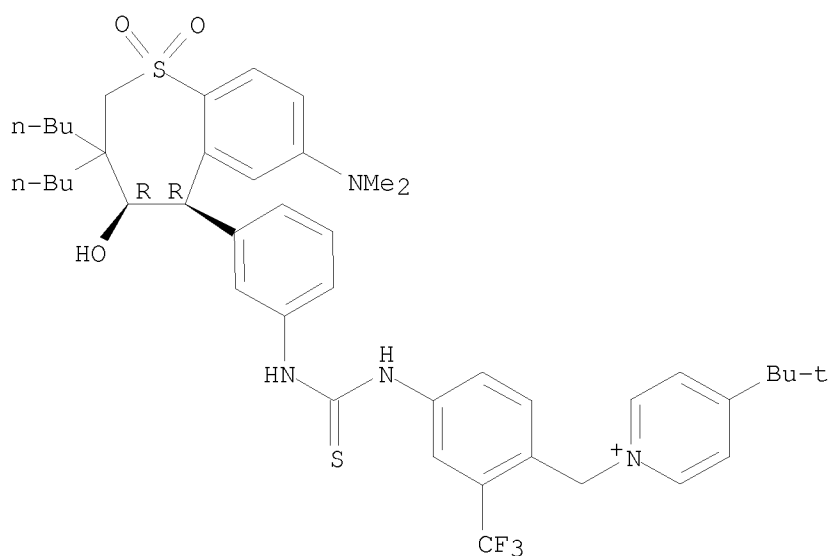


RN 1234632-19-9 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-(trifluoromethyl)phenyl]methyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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IT	1234632-20-2P	1234632-21-3P	1234632-22-4P
	1234632-23-5P	1234632-24-6P	1234632-25-7P
	1234632-26-8P	1234632-27-9P	1234632-28-0P
	1234632-29-1P	1234632-30-4P	1234632-31-5P
	1234632-32-6P	1234632-33-7P	1234632-34-8P
	1234632-35-9P	1234632-36-0P	1234632-37-1P
	1234632-38-2P	1234632-39-3P	1234632-40-6P
	1234632-41-7P	1234632-42-8P	1234632-43-9P
	1234632-44-0P	1234632-45-1P	1234632-46-2P
	1234632-47-3P	1234632-48-4P	1234632-49-5P
	1234632-50-8P	1234632-51-9P	1234632-52-0P
	1234632-53-1P	1234632-54-2P	1234632-55-3P
	1234632-56-4P	1234632-57-5P	1234632-58-6P
	1234632-59-7P	1234632-60-0P	1234632-61-1P
	1234632-62-2P	1234632-63-3P	1234632-64-4P
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	1234632-68-8P	1234632-69-9P	1234632-70-2P
	1234632-71-3P	1234632-72-4P	1234632-73-5P
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1234694-17-7P	1246371-57-2P	1246371-59-4P
1246371-60-7P	1246371-61-8P	

RL: PAC (Pharmacological activity); PRPH (Prophetic); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

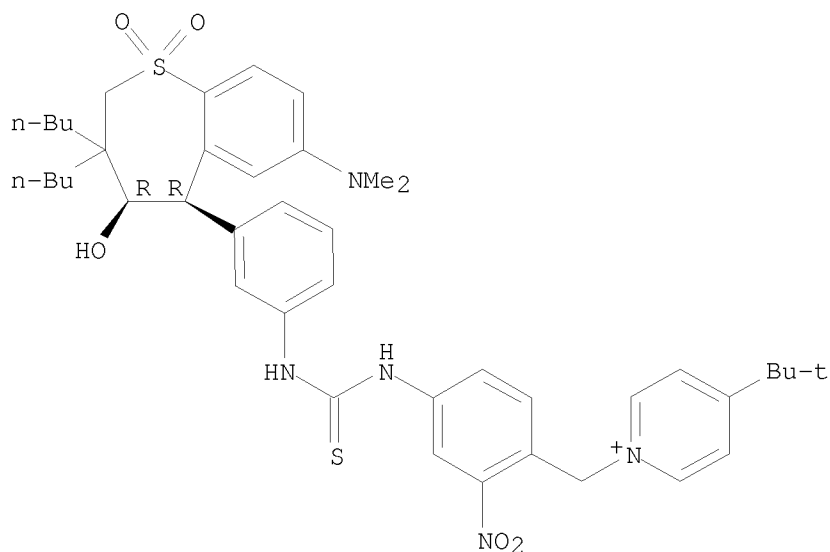
(preparation of benzothiazepine and benzothiepine compds. for prevention and treatment of hyperlipemia and lowering cholesterol)

RN 1234632-20-2 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-nitrophenyl]methyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

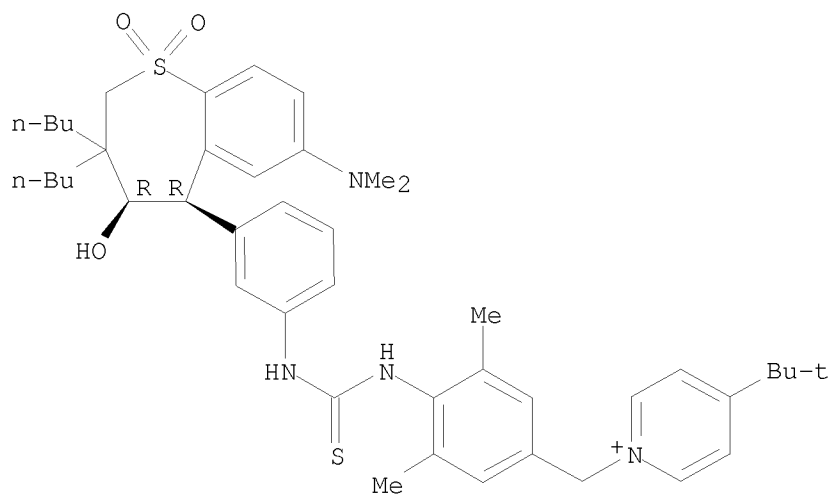
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RN 1234632-21-3 CAPLUS
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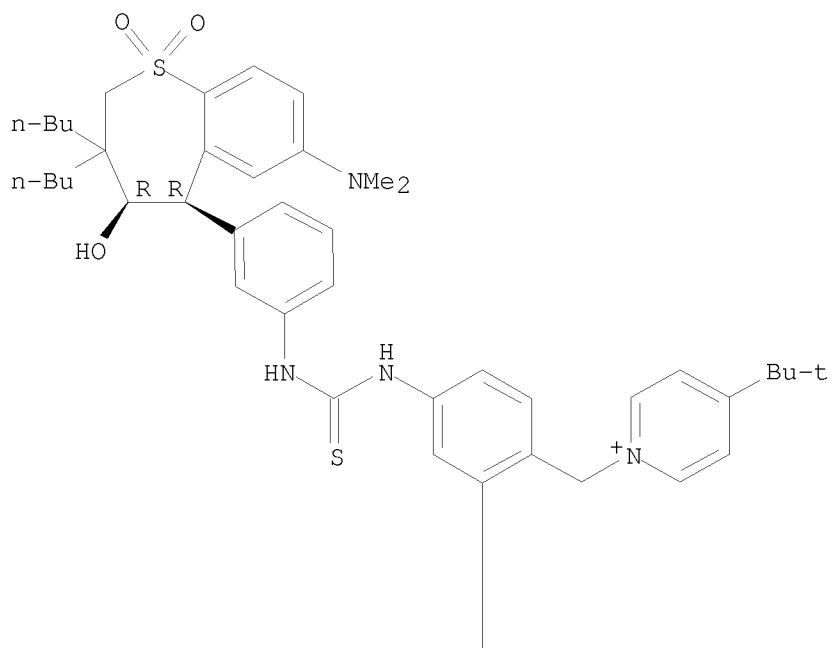
Relative stereochemistry.



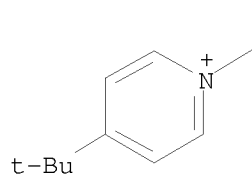
RN 1234632-22-4 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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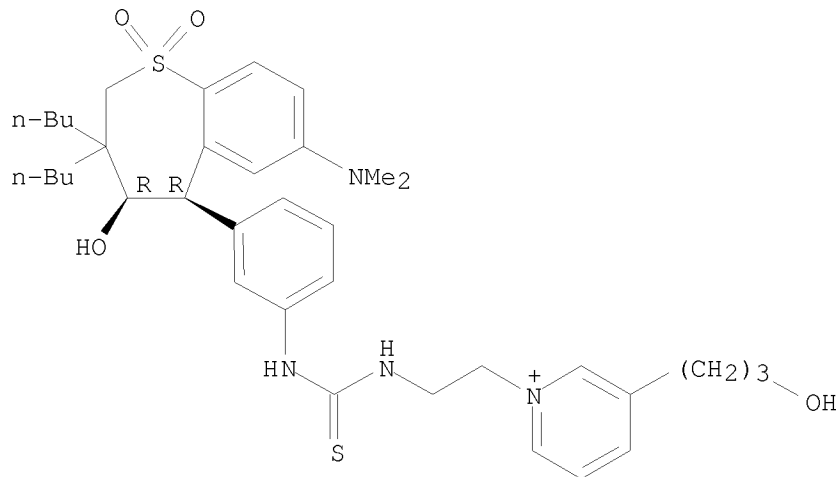
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● 2 Br⁻

RN 1234632-23-5 CAPLUS
 CN Pyridinium, 1-[2-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]ethyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

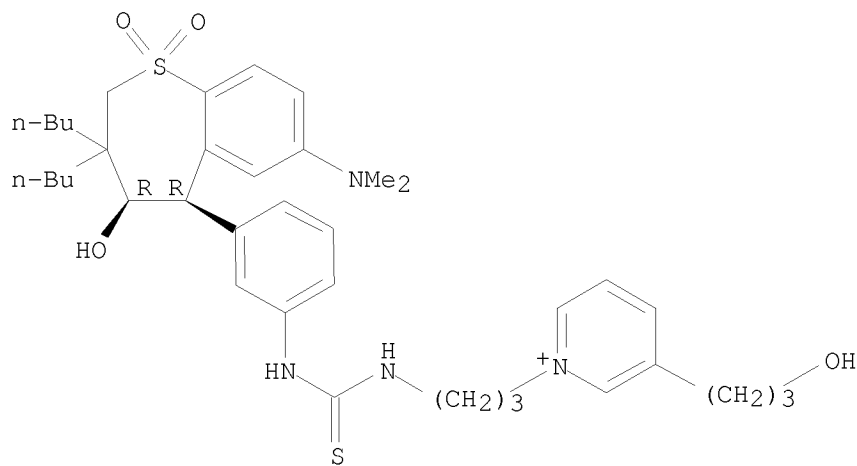
Relative stereochemistry.

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RN 1234632-24-6 CAPLUS
 CN Pyridinium, 1-[3-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]propyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

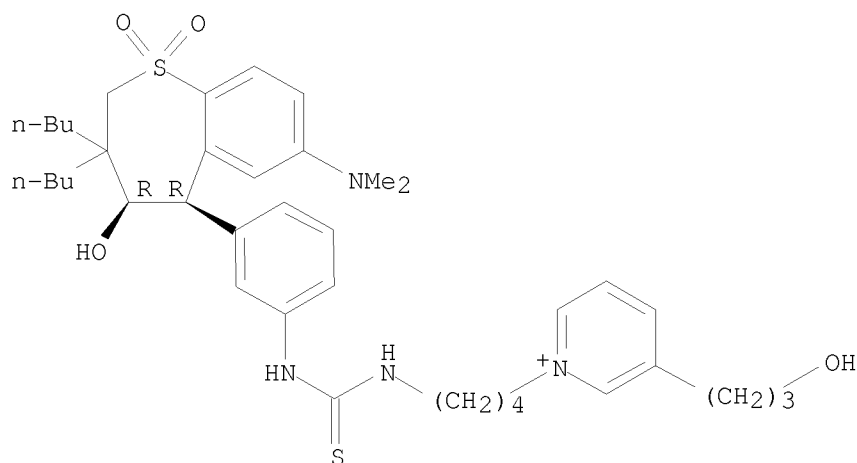


RN 1234632-25-7 CAPLUS
 CN Pyridinium, 1-[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-

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tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]butyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

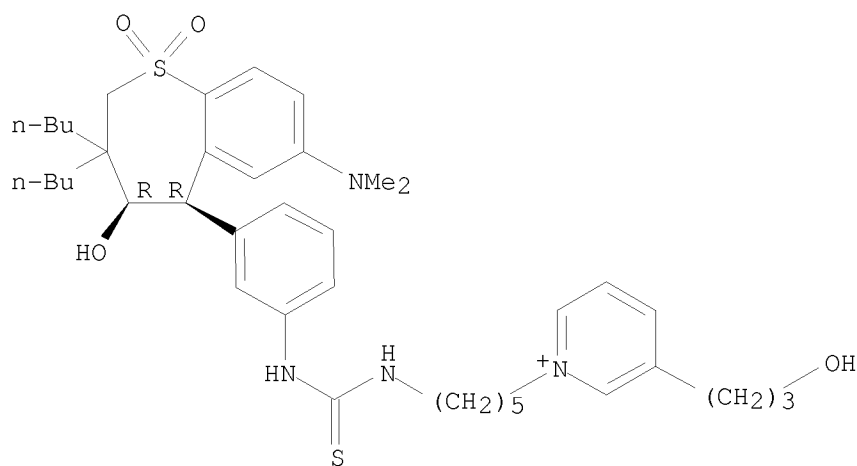


RN 1234632-26-8 CAPLUS

CN Pyridinium, 1-[5-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]pentyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

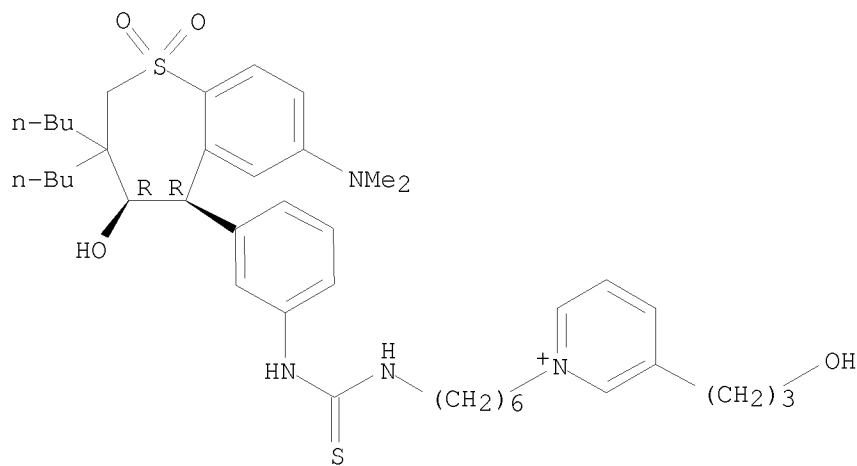
Relative stereochemistry.

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RN 1234632-27-9 CAPLUS
 CN Pyridinium, 1-[6-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]hexyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

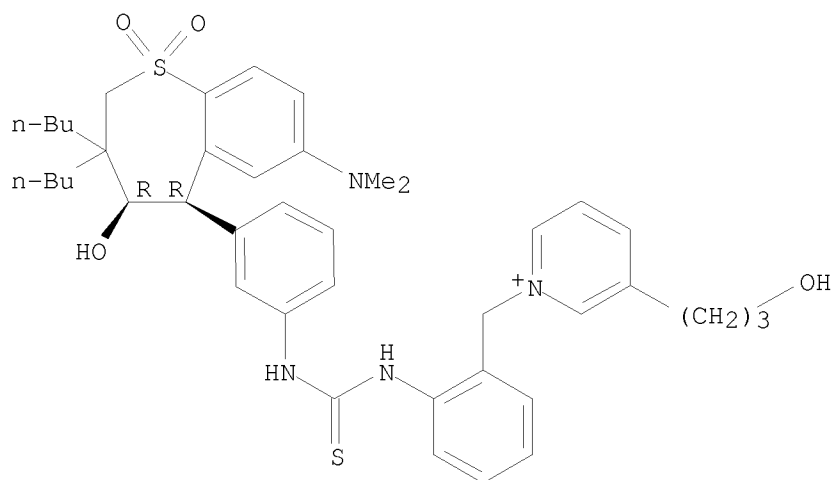
Relative stereochemistry.



RN 1234632-28-0 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

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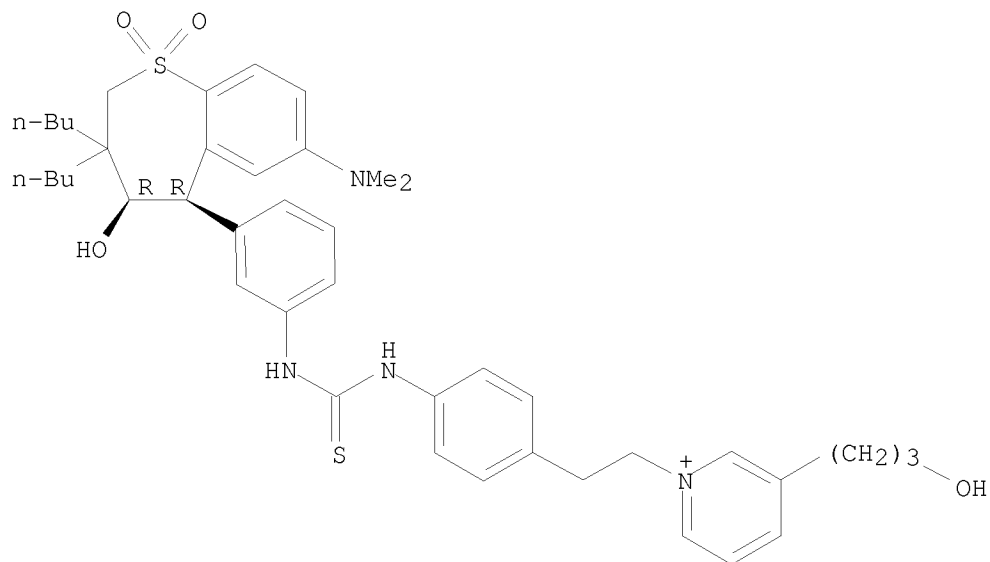
Relative stereochemistry.



RN 1234632-29-1 CAPLUS
CN Pyridinium, 1-[2-[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]ethyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

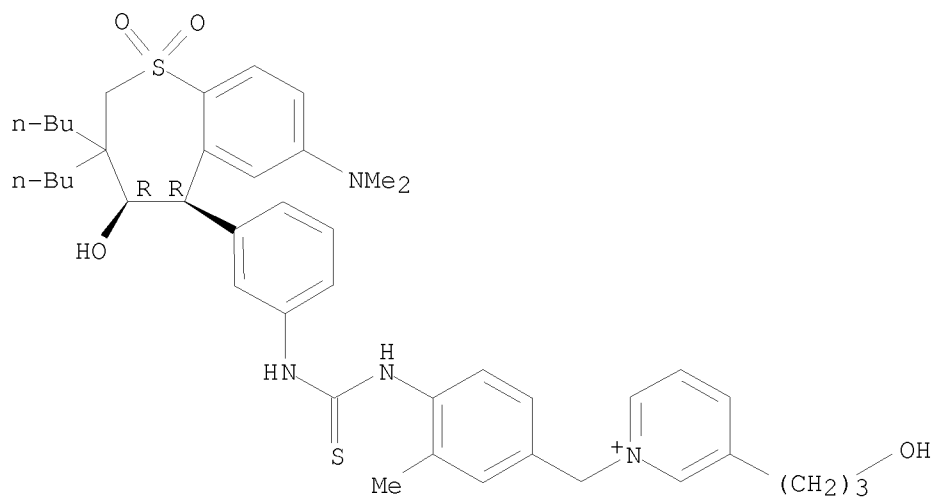
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RN 1234632-30-4 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-methylphenyl]methyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

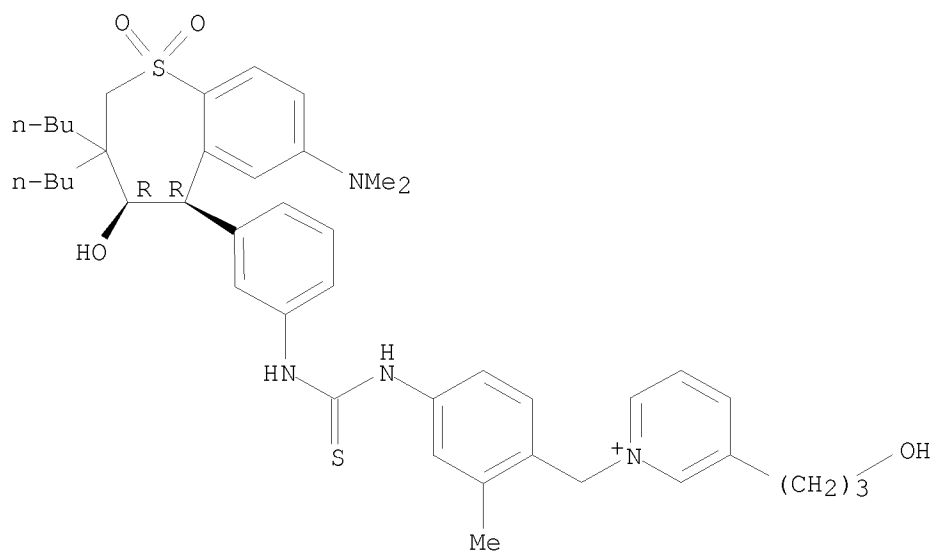
Relative stereochemistry.



RN 1234632-31-5 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-methylphenyl]methyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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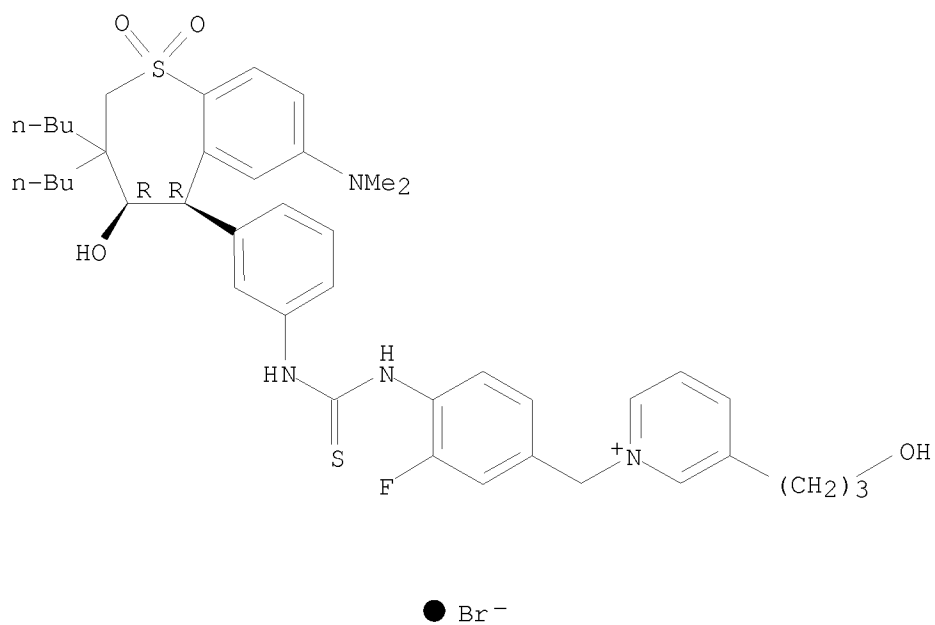
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RN 1234632-32-6 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-fluorophenyl]methyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

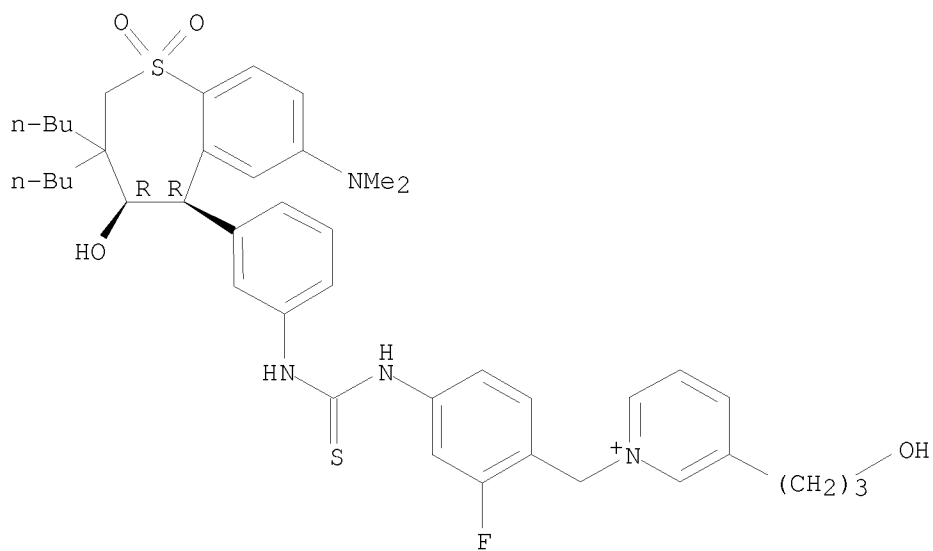
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RN 1234632-33-7 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-fluorophenyl]methyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

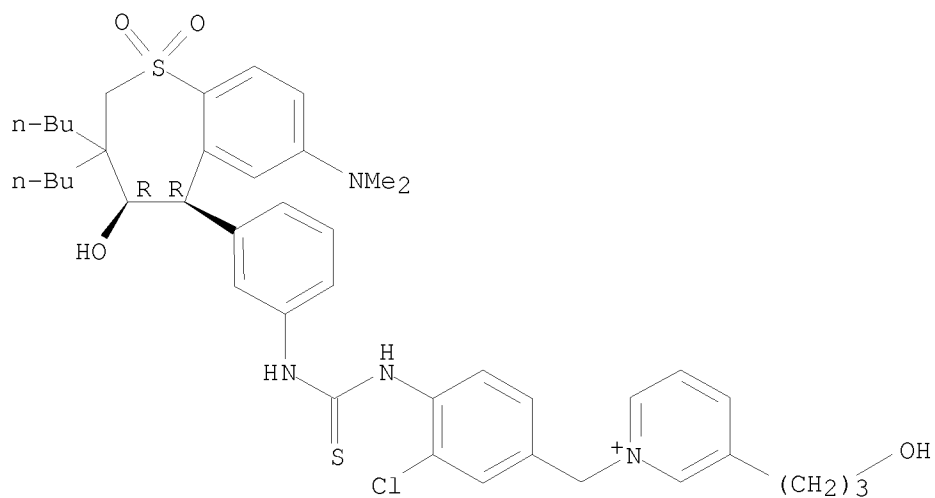
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RN 1234632-34-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

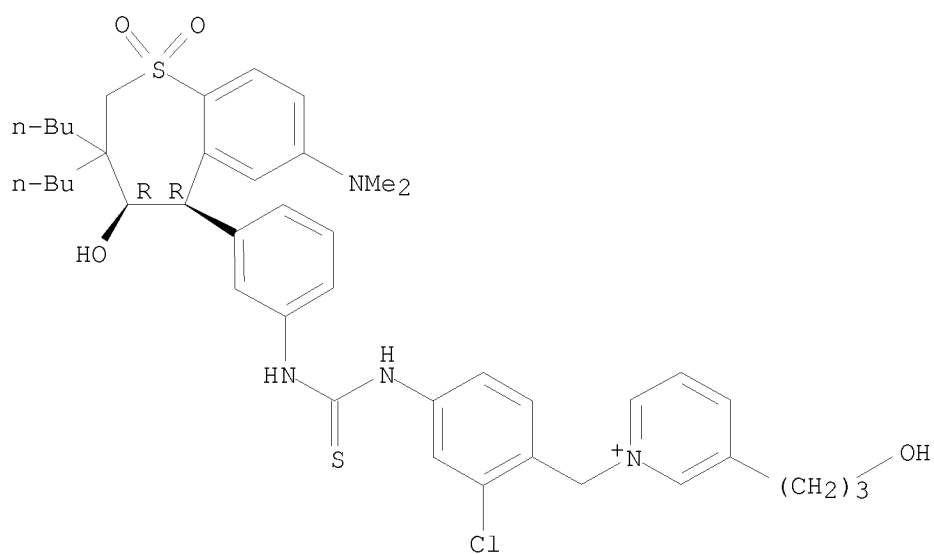
Relative stereochemistry.



RN 1234632-35-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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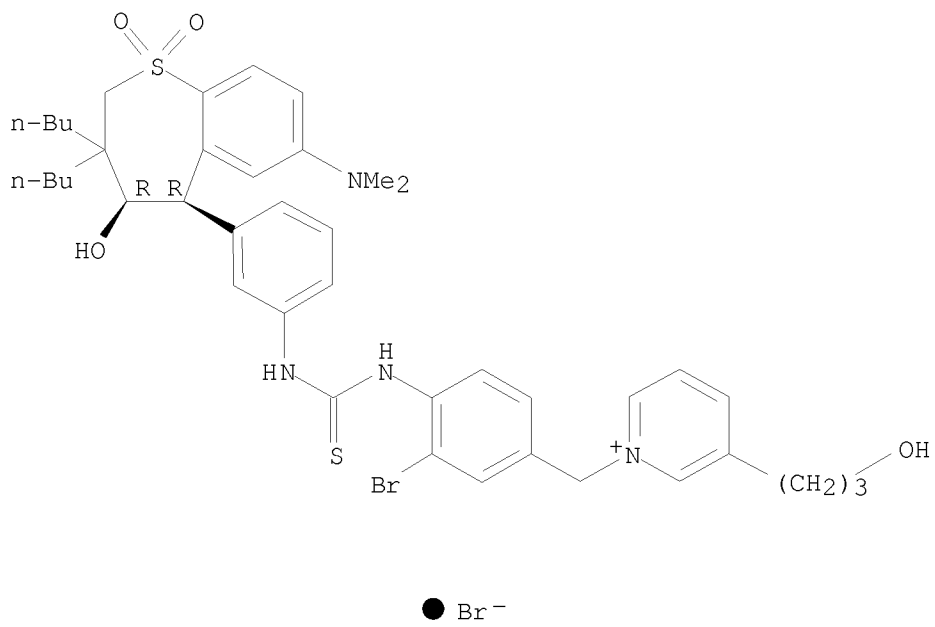
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RN 1234632-36-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

10/598,458



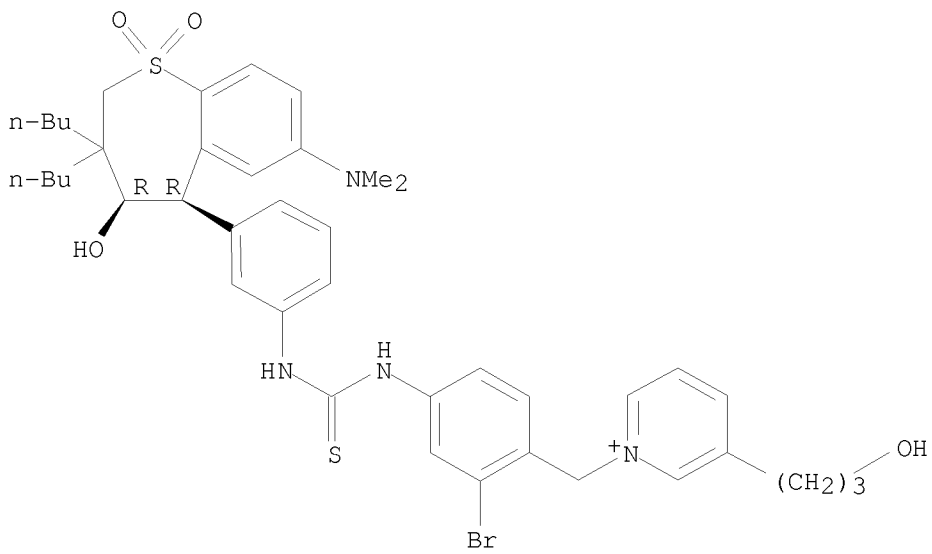
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RN      1234632-37-1  CAPLUS
CN      INDEX NAME NOT YET ASSIGNED

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Relative stereochemistry.

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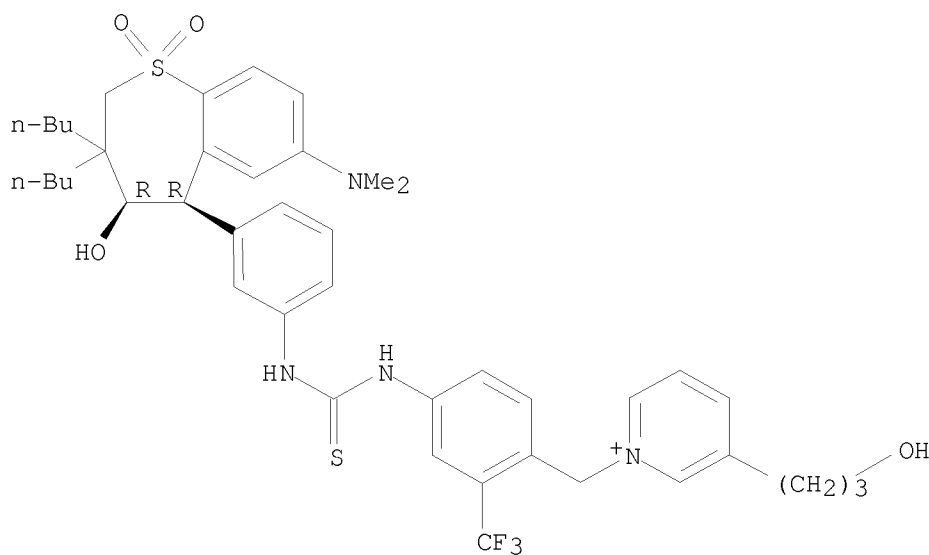
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RN 1234632-38-2 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-(trifluoromethyl)phenyl]methyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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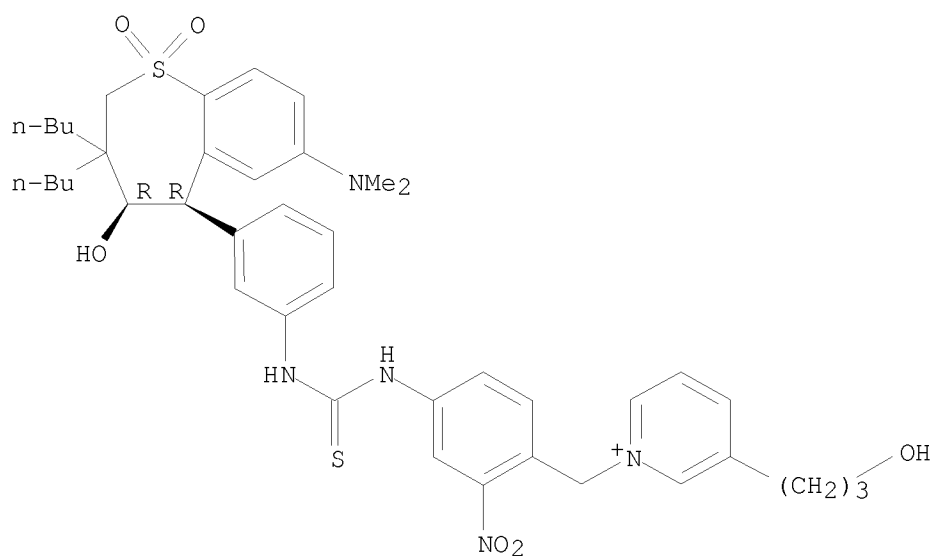
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RN 1234632-39-3 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-nitrophenyl]methyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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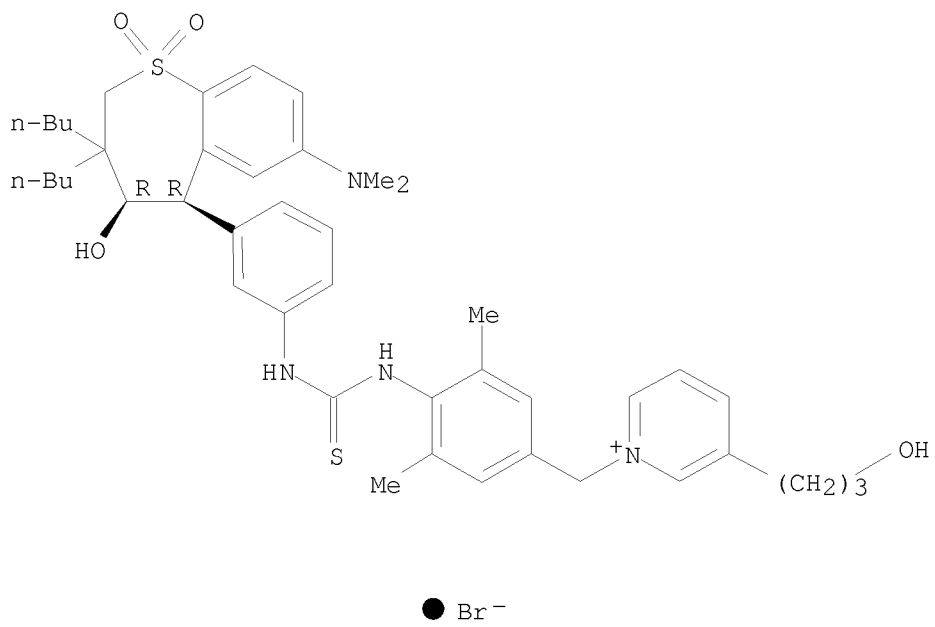
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RN 1234632-40-6 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3,5-dimethylphenyl]methyl]-3-(3-hydroxypropyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

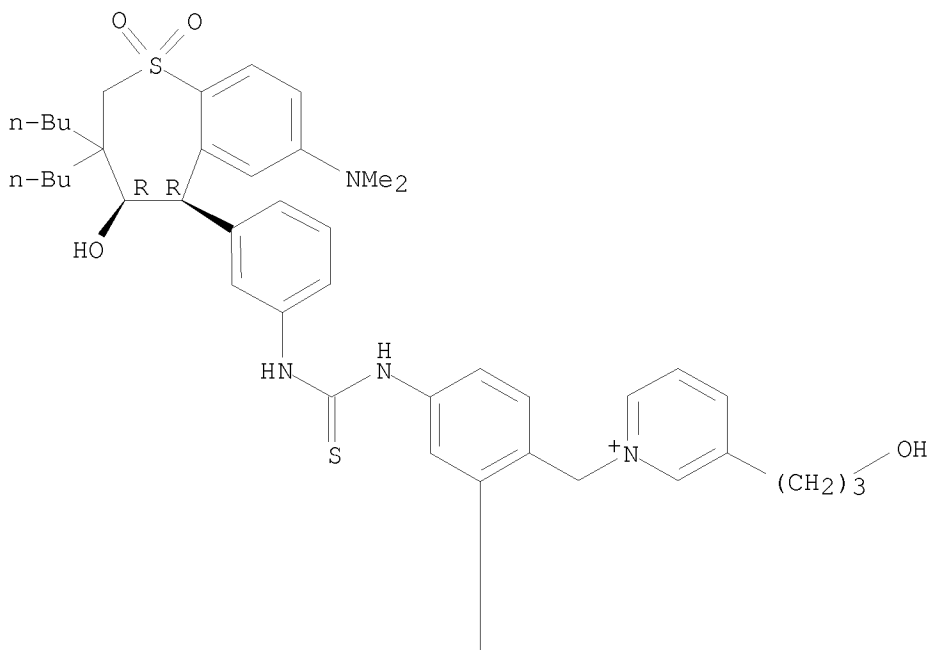
10/598,458

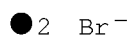
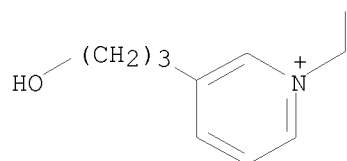


RN 1234632-41-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

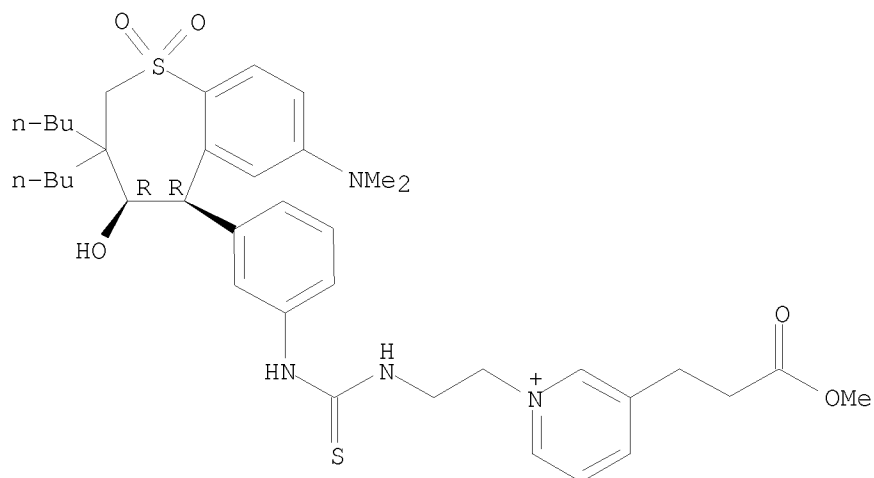
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RN 1234632-42-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

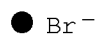
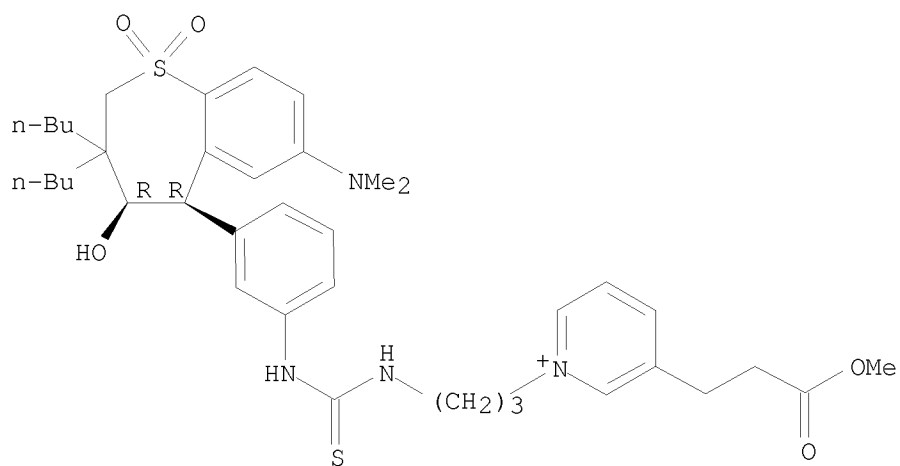
Relative stereochemistry.



RN 1234632-43-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

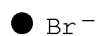
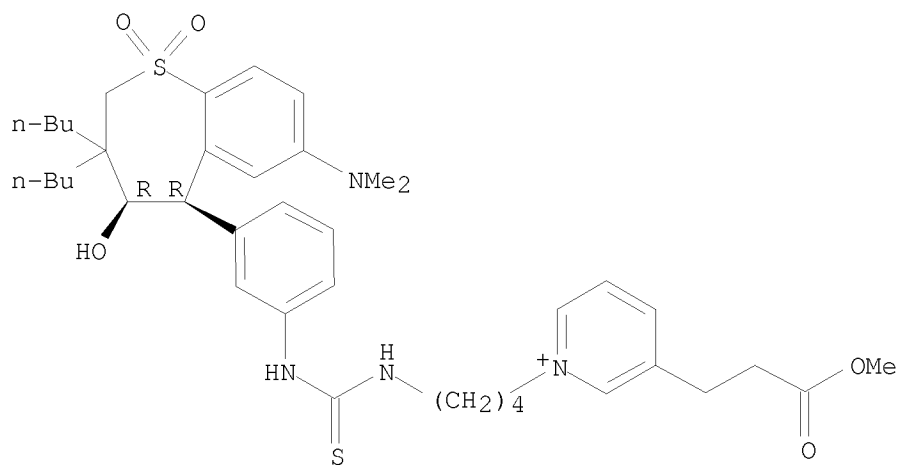
Relative stereochemistry.

10/598,458



RN 1234632-44-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

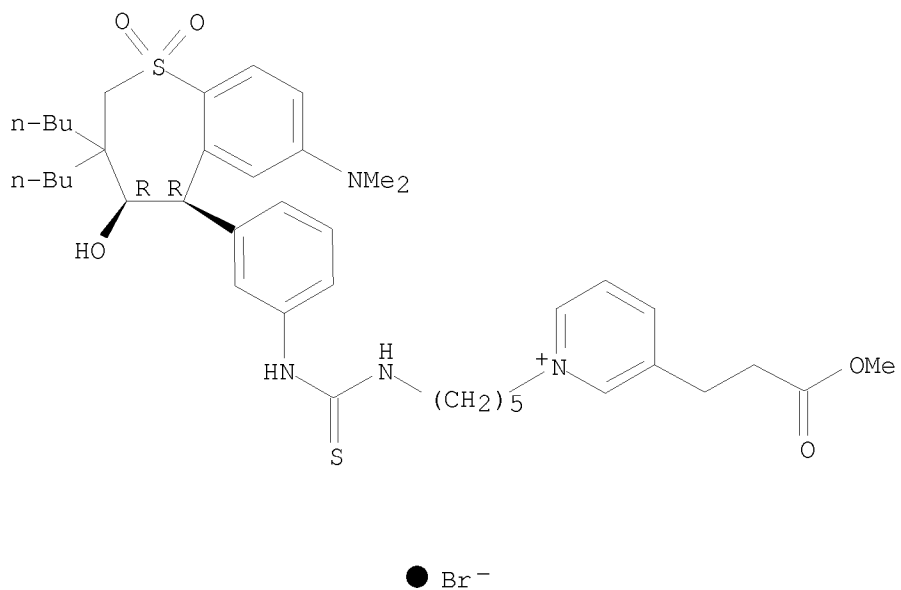
Relative stereochemistry.



RN 1234632-45-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

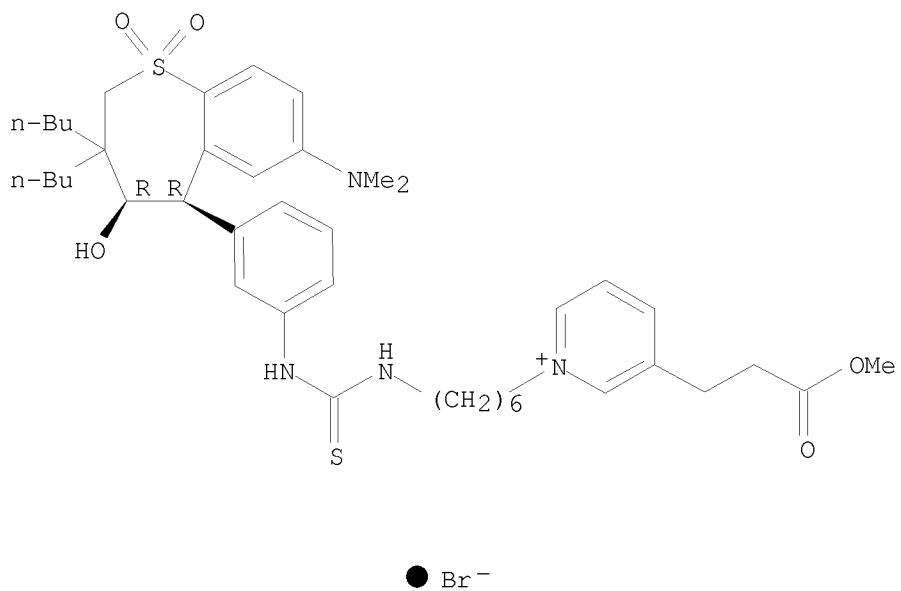
Relative stereochemistry.

10/598,458



RN 1234632-46-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

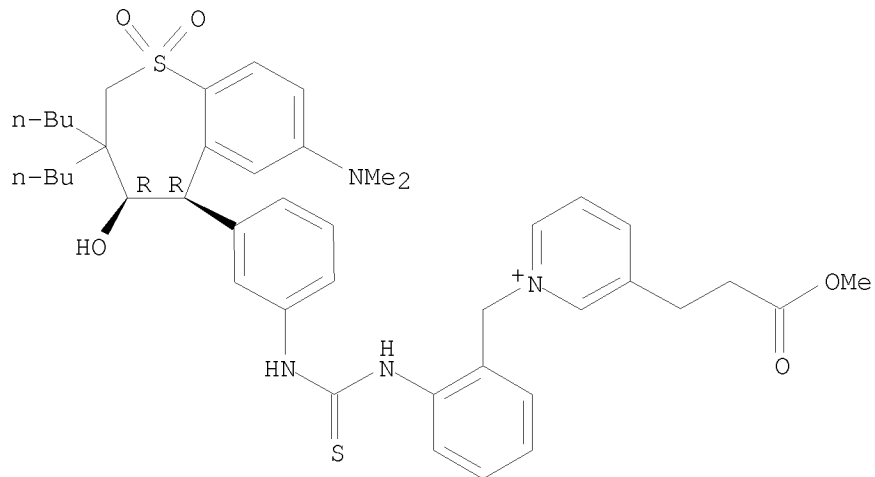
Relative stereochemistry.



RN 1234632-47-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

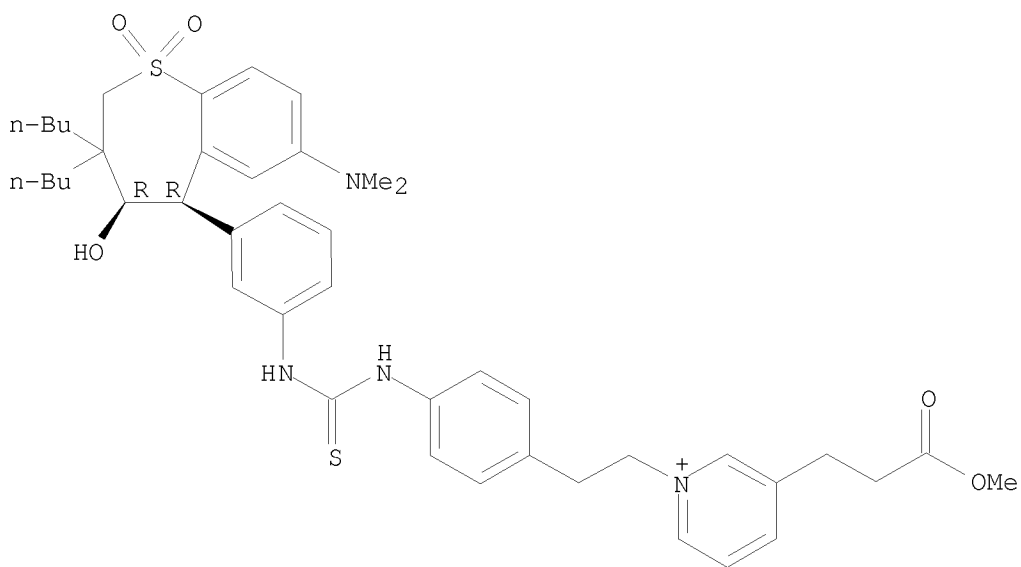
10/598,458



RN 1234632-48-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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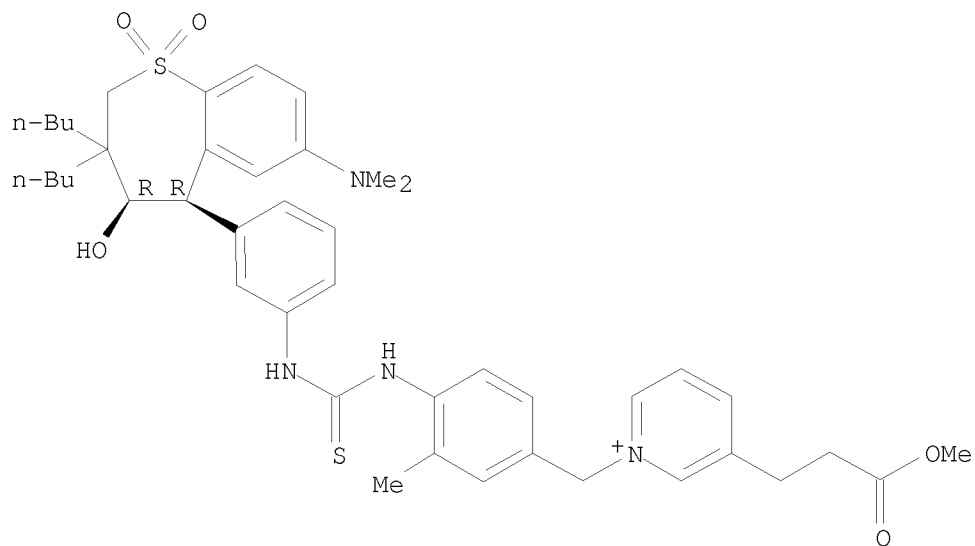


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RN 1234632-49-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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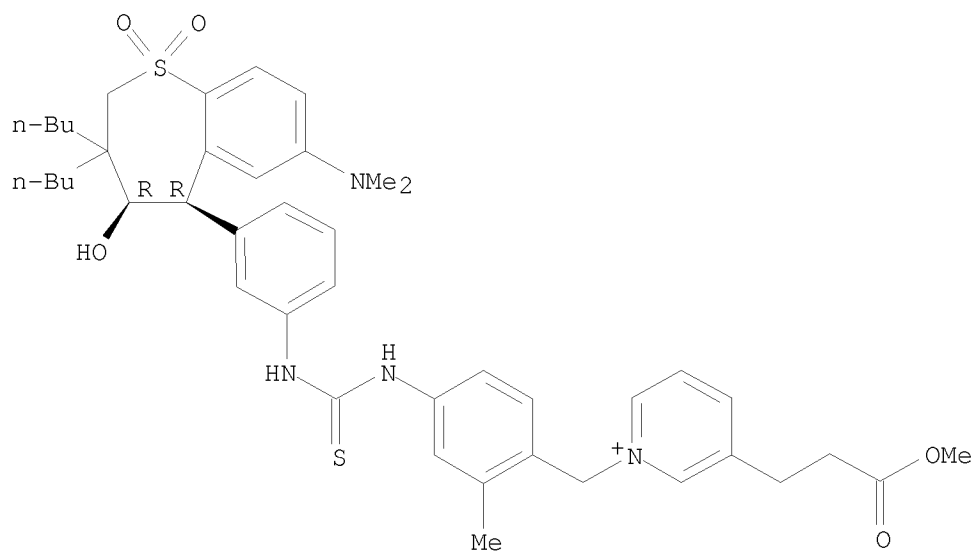
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RN 1234632-50-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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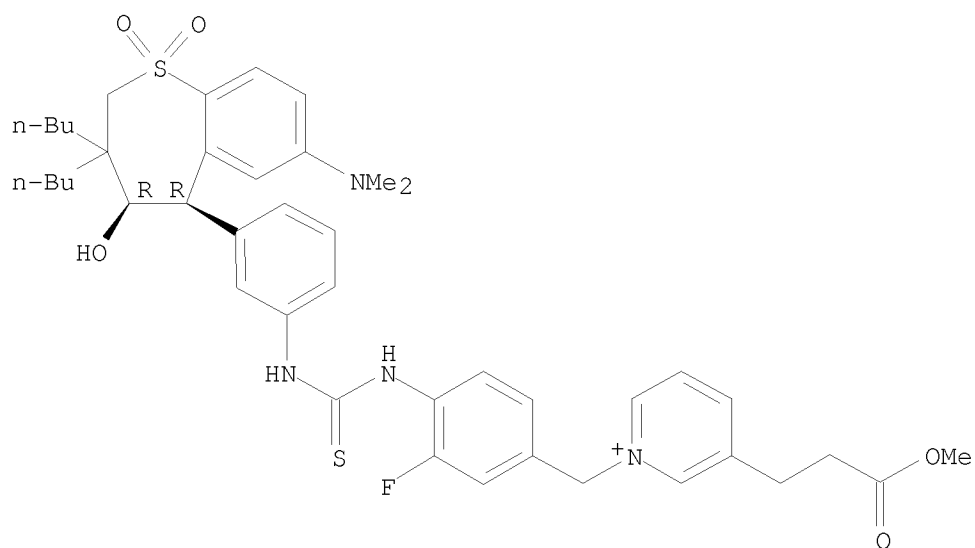
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RN 1234632-51-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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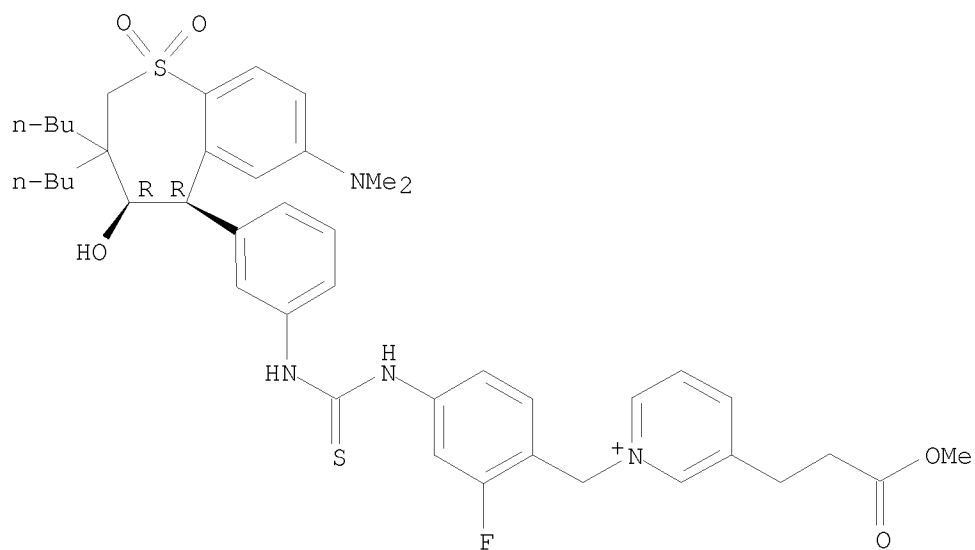
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RN 1234632-52-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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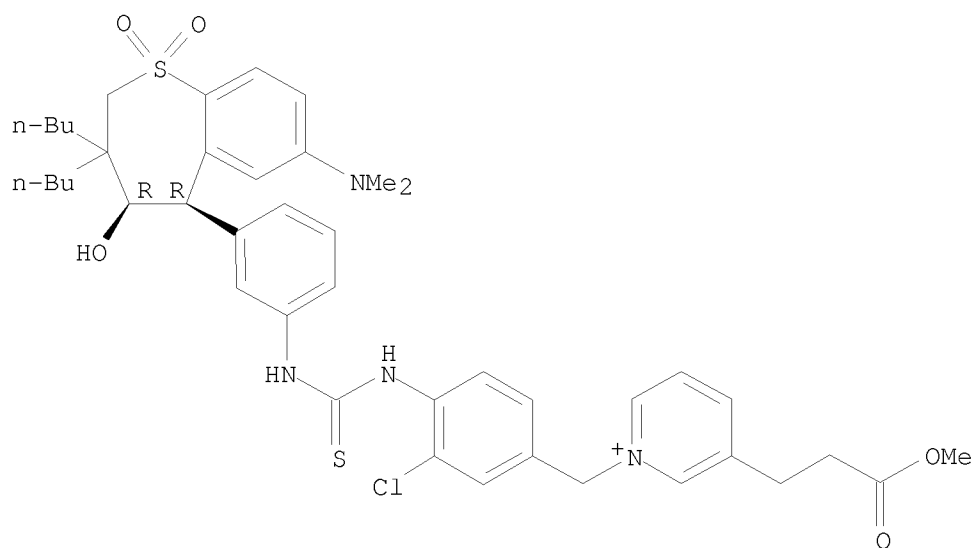
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RN 1234632-53-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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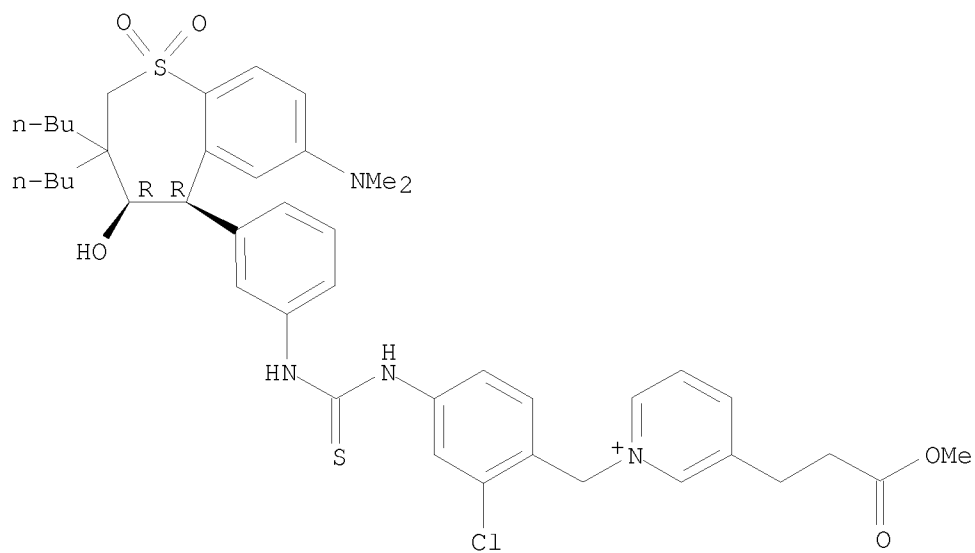
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RN 1234632-54-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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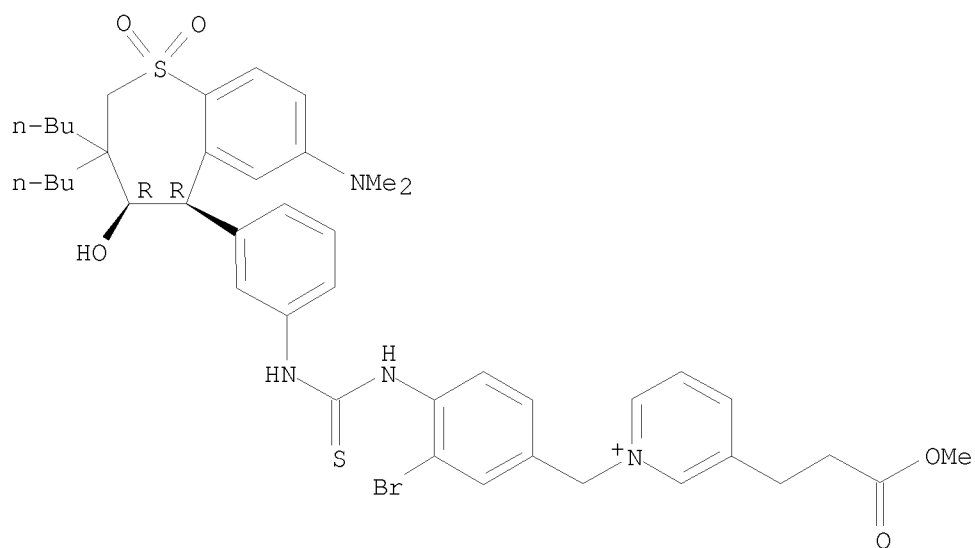
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RN 1234632-55-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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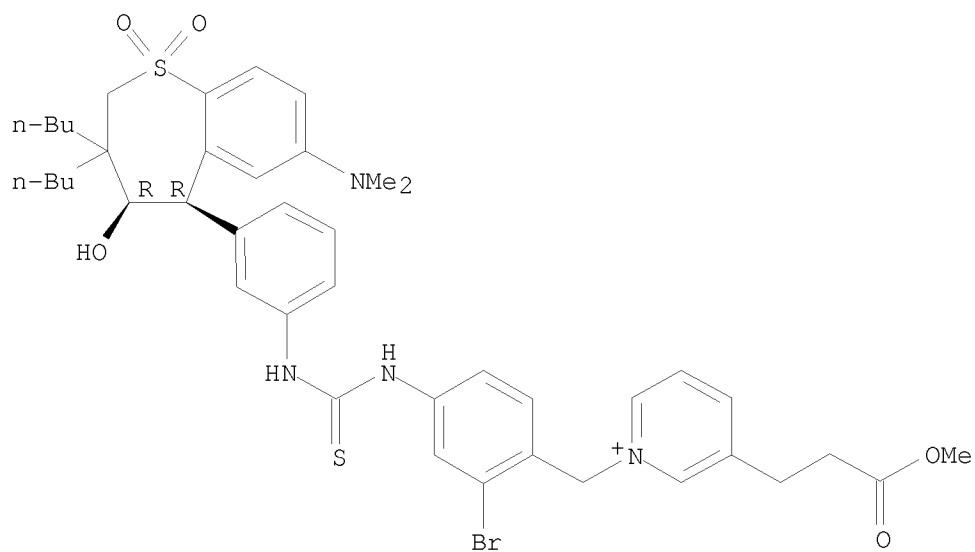
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RN 1234632-56-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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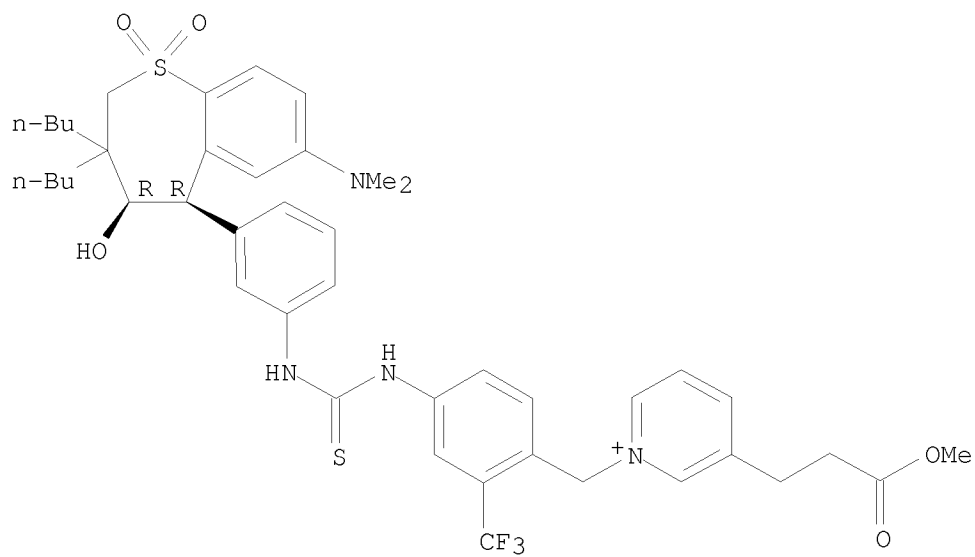
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RN 1234632-57-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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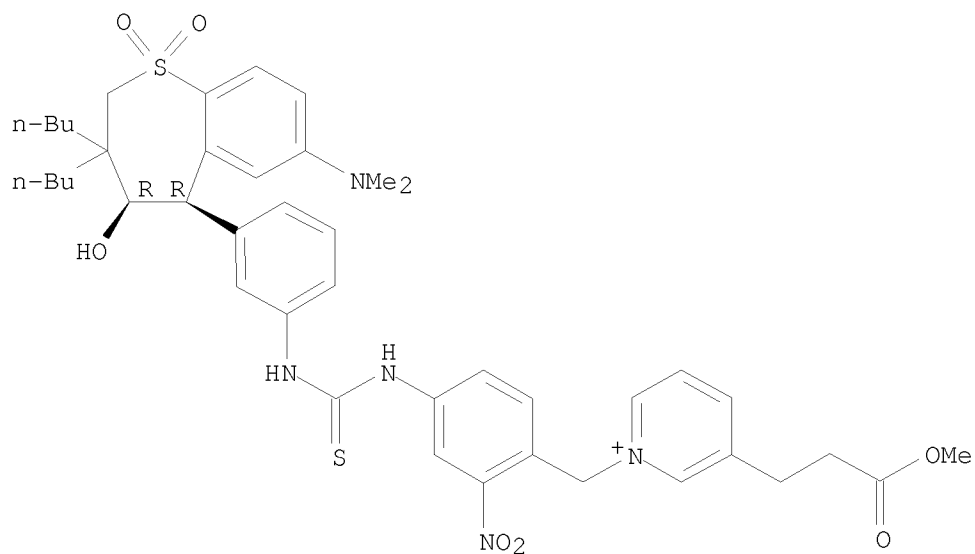
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RN 1234632-58-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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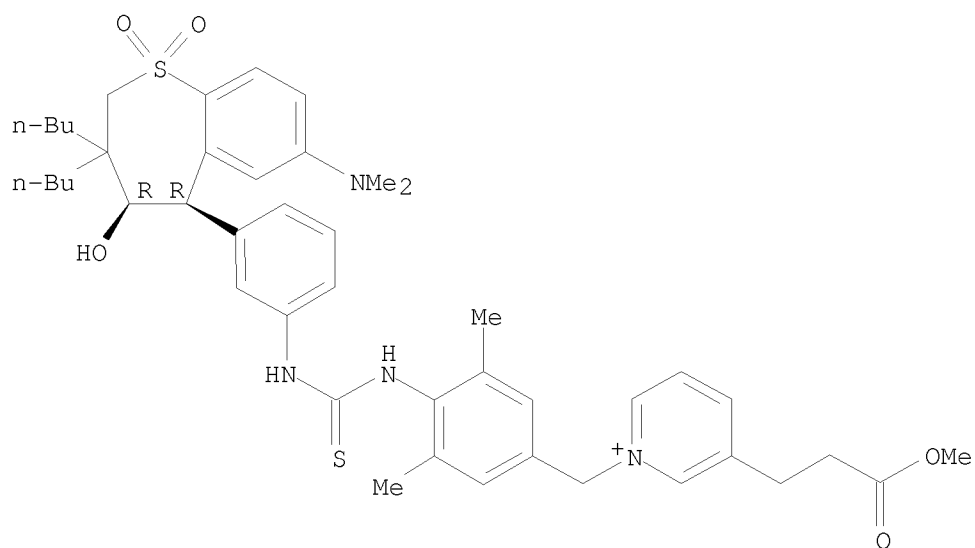
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RN 1234632-59-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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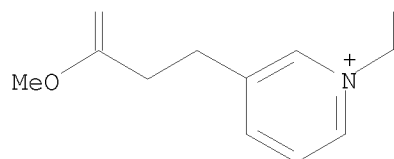
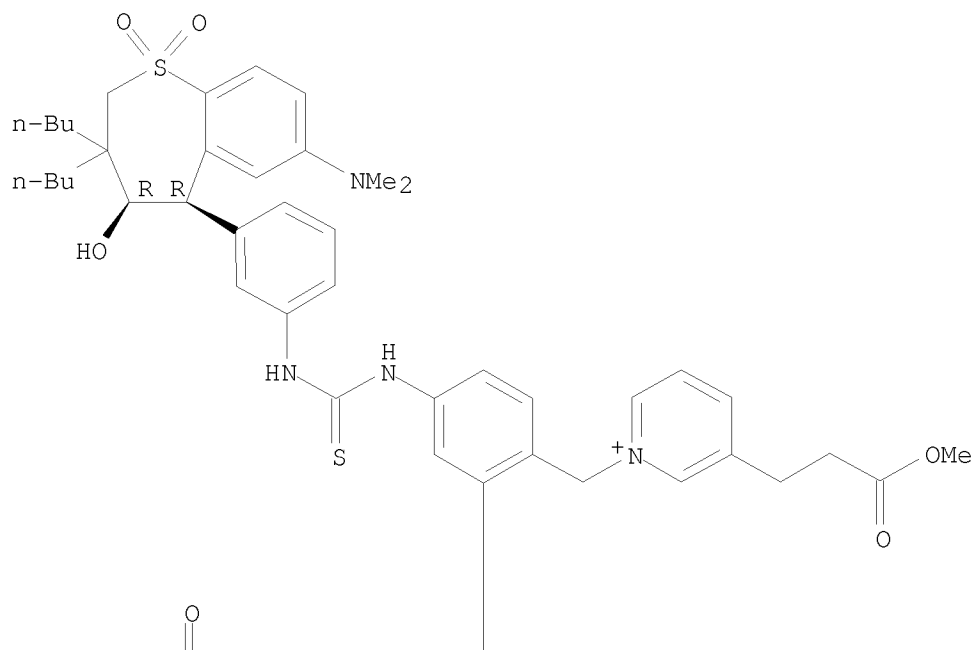


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RN 1234632-60-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

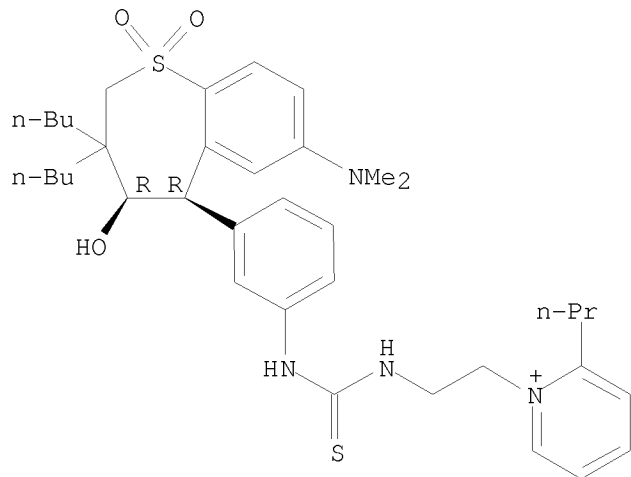


● 2 Br⁻

RN 1234632-61-1 CAPLUS
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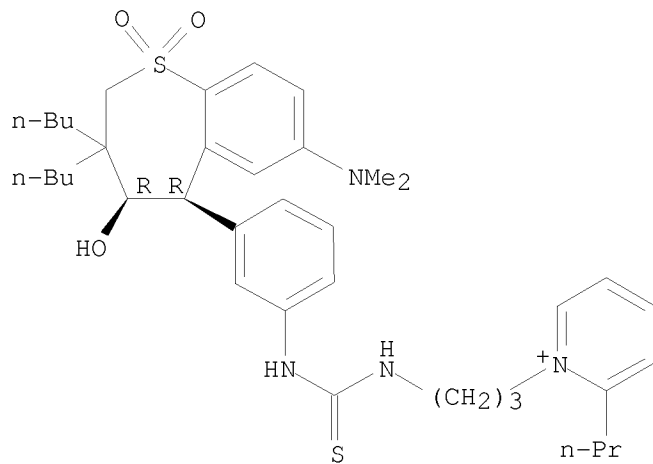
Relative stereochemistry.

10/598,458



RN 1234632-62-2 CAPLUS
 CN Pyridinium, 1-[3-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]propyl]-2-propyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

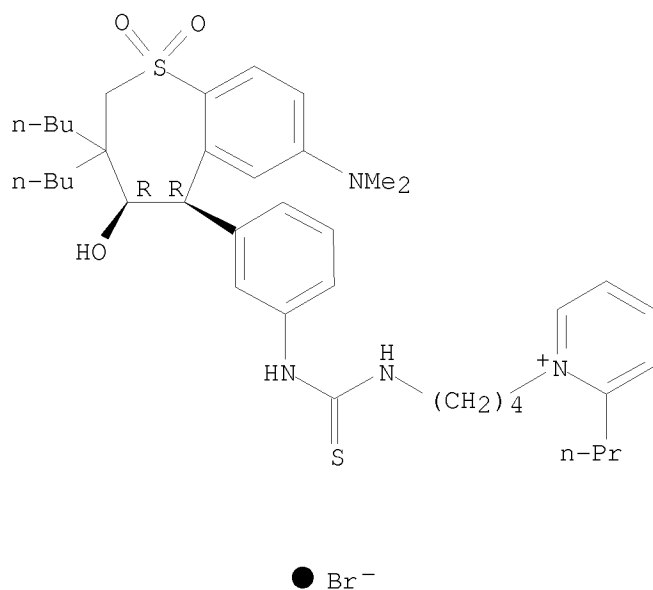


RN 1234632-63-3 CAPLUS
 CN Pyridinium, 1-[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-

10/598,458

tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]butyl]-2-propyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

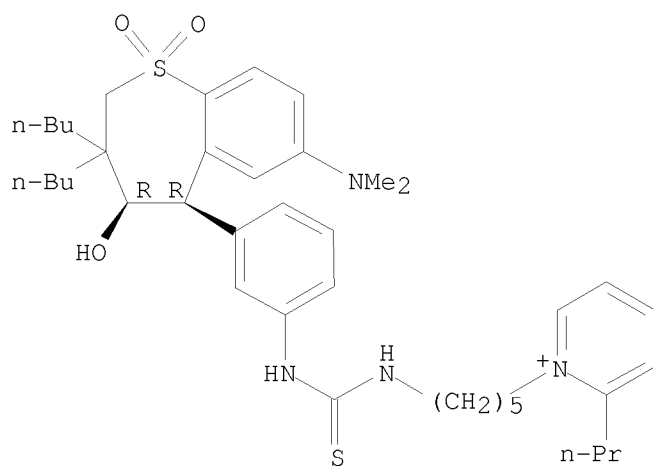


RN 1234632-64-4 CAPLUS

CN Pyridinium, 1-[5-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]pentyl]-2-propyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

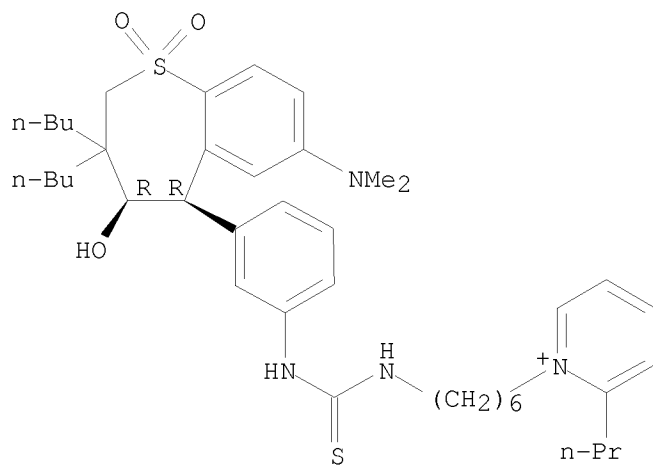
10/598,458



RN 1234632-65-5 CAPLUS

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Relative stereochemistry.

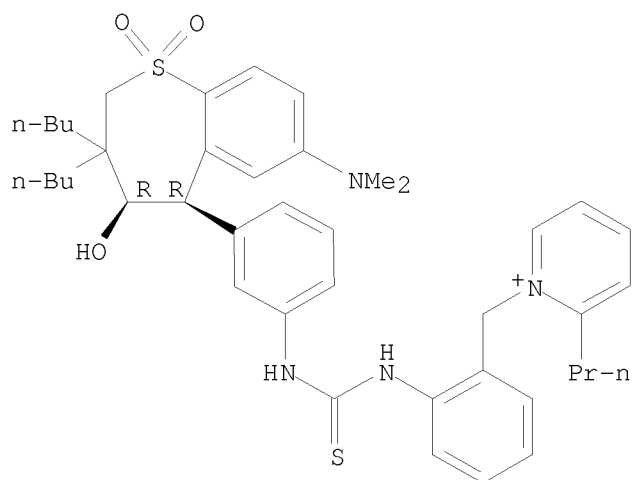


RN 1234632-66-6 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

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Relative stereochemistry.

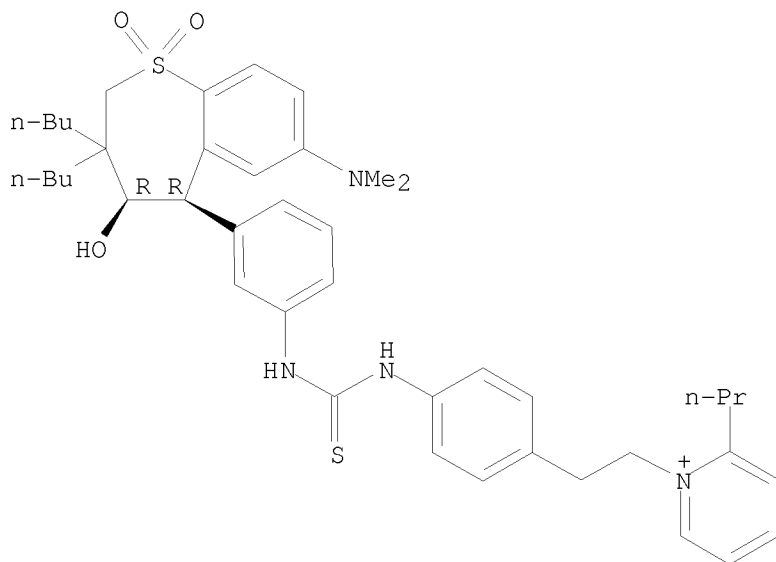


RN 1234632-67-7 CAPLUS

CN Pyridinium, 1-[2-[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]ethyl]-2-propyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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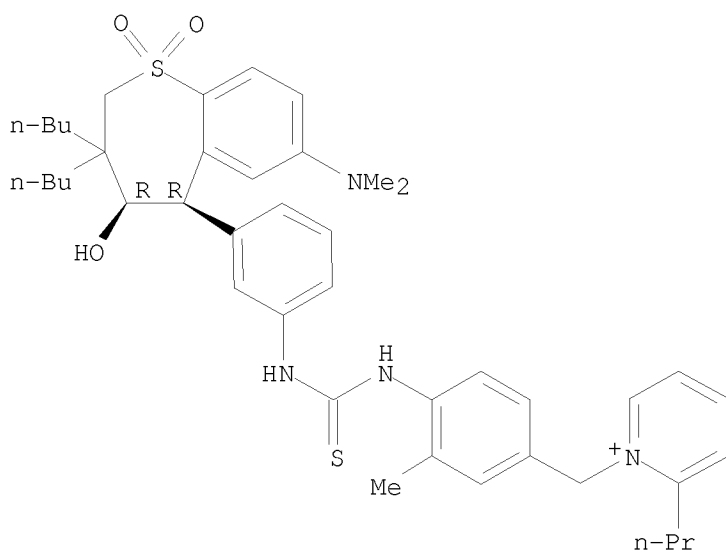
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RN 1234632-68-8 CAPLUS
 CN Pyridinium, 1-[[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-methylphenyl]methyl]-2-propyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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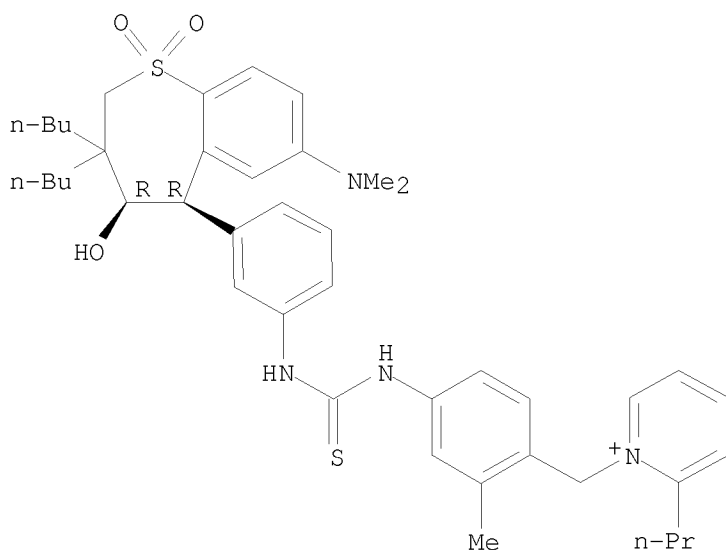
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RN 1234632-69-9 CAPLUS
 CN Pyridinium, 1-[[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-methylphenyl]methyl]-2-propyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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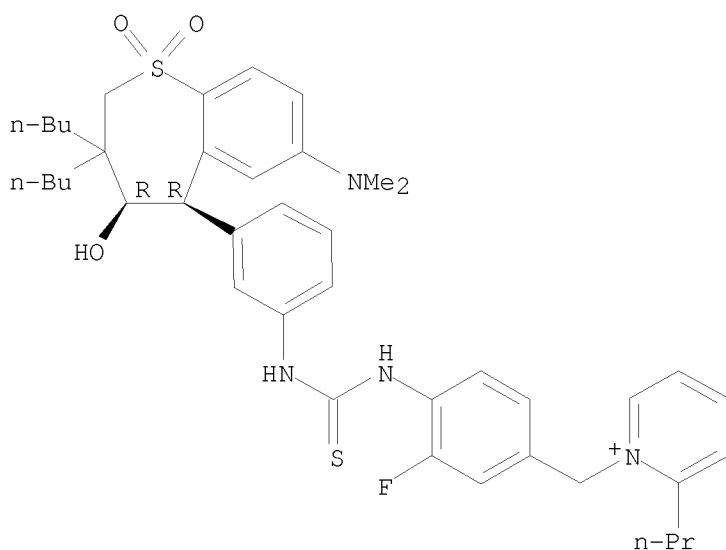
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RN 1234632-70-2 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-fluorophenyl]methyl]-2-propyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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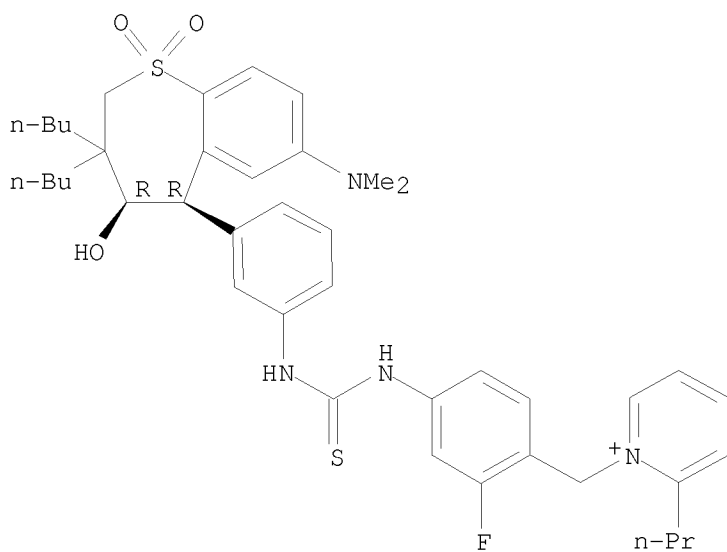
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RN 1234632-71-3 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-fluorophenyl]methyl]-2-propyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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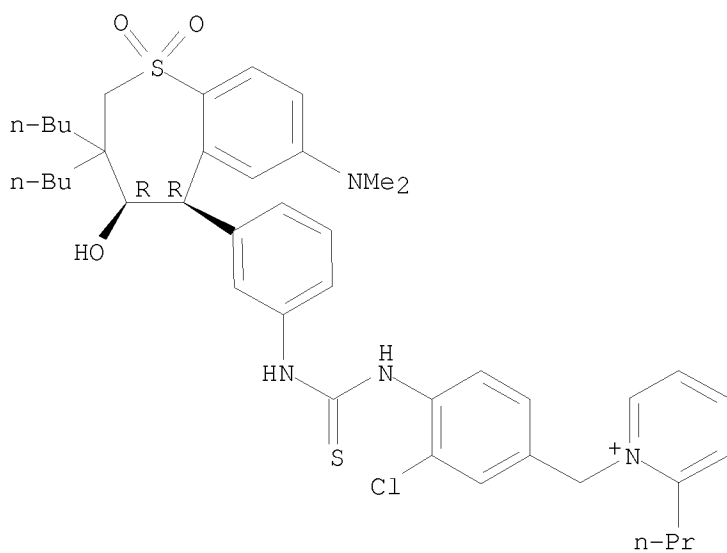
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RN 1234632-72-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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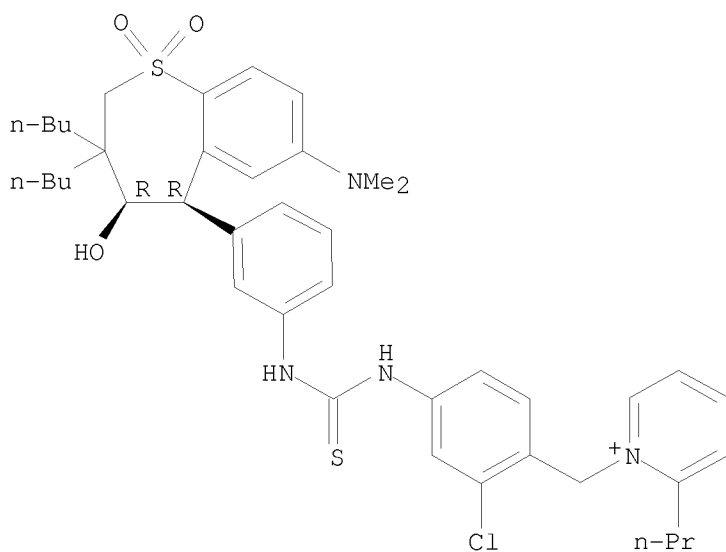
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RN 1234632-73-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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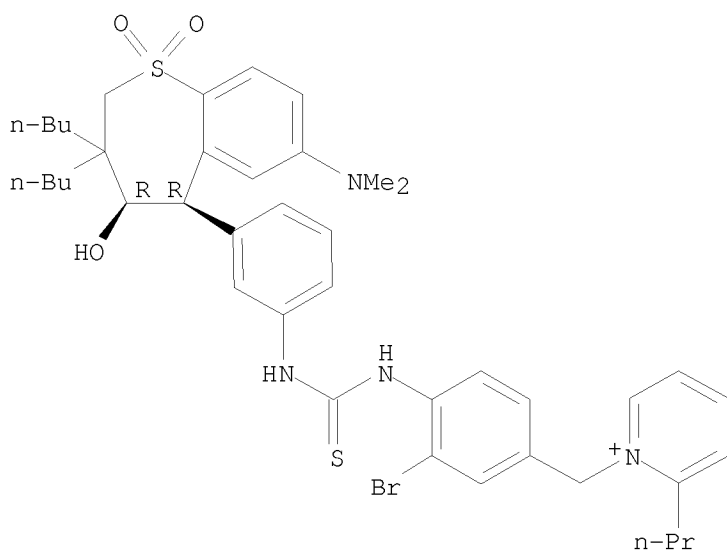
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RN 1234632-74-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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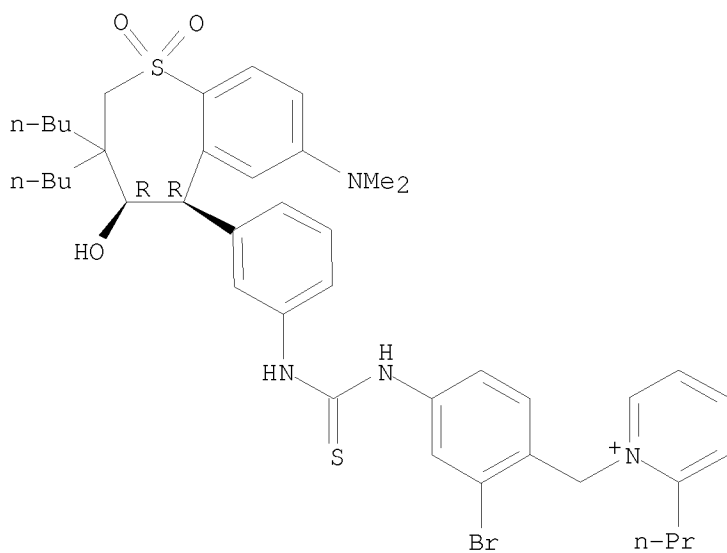
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RN 1234632-75-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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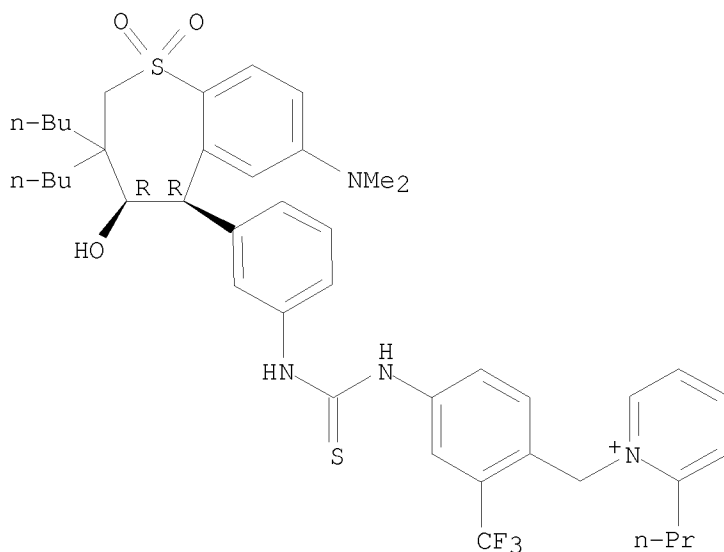
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RN 1234632-76-8 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-(trifluoromethyl)phenyl]methyl]-2-propyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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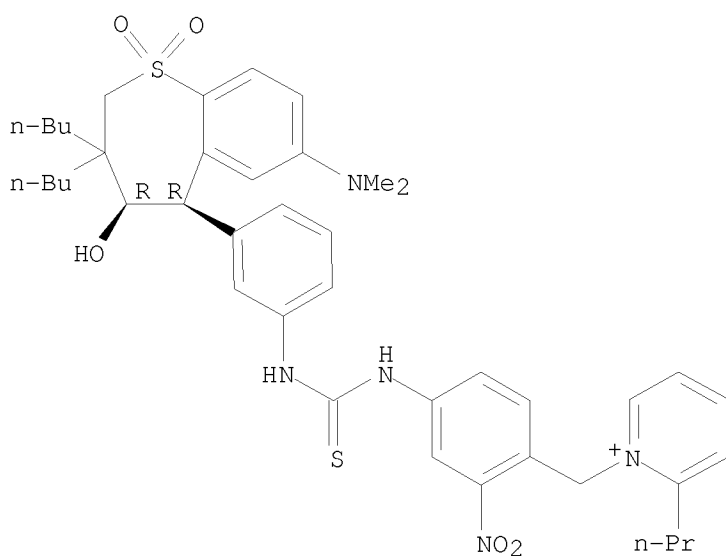
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RN 1234632-77-9 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-nitrophenyl]methyl]-2-propyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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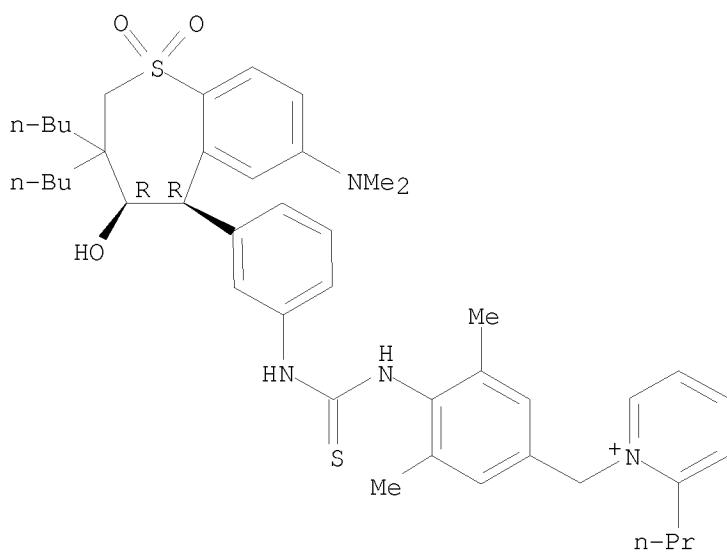


RN 1234632-78-0 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3,5-dimethylphenyl]methyl]-2-propyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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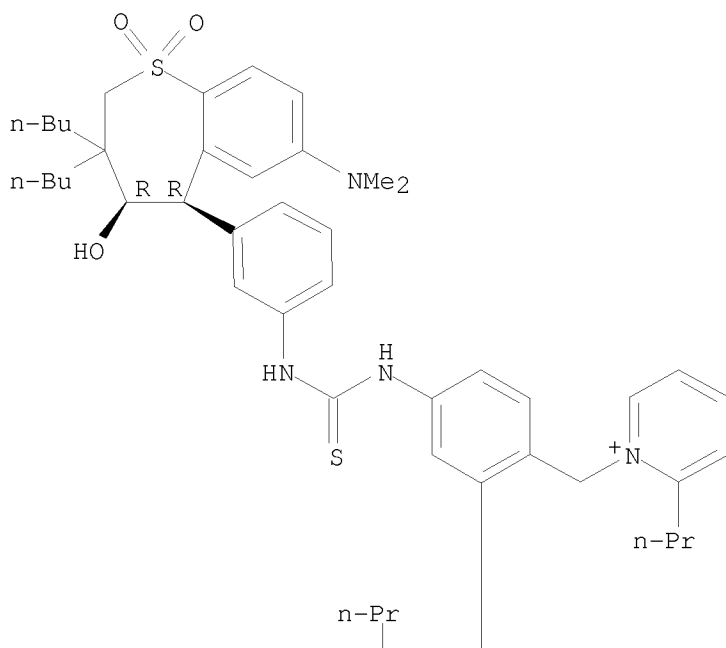
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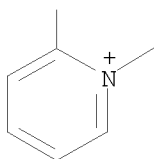
RN 1234632-79-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

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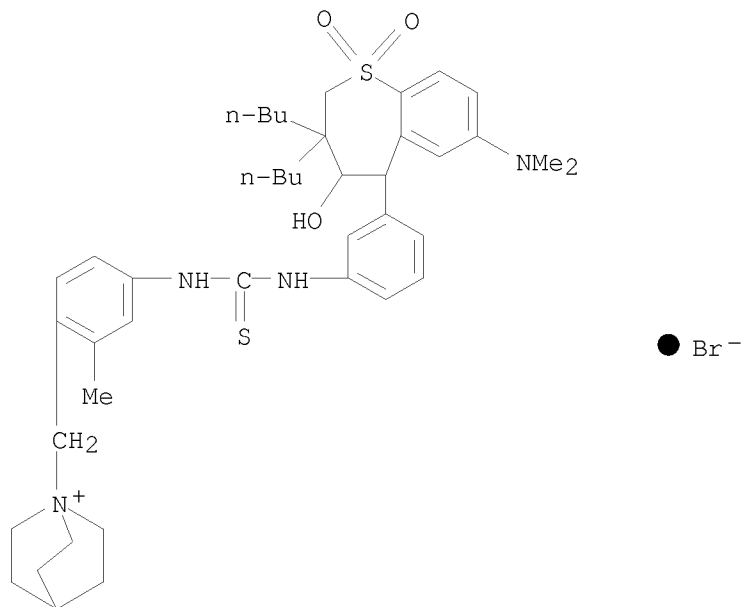


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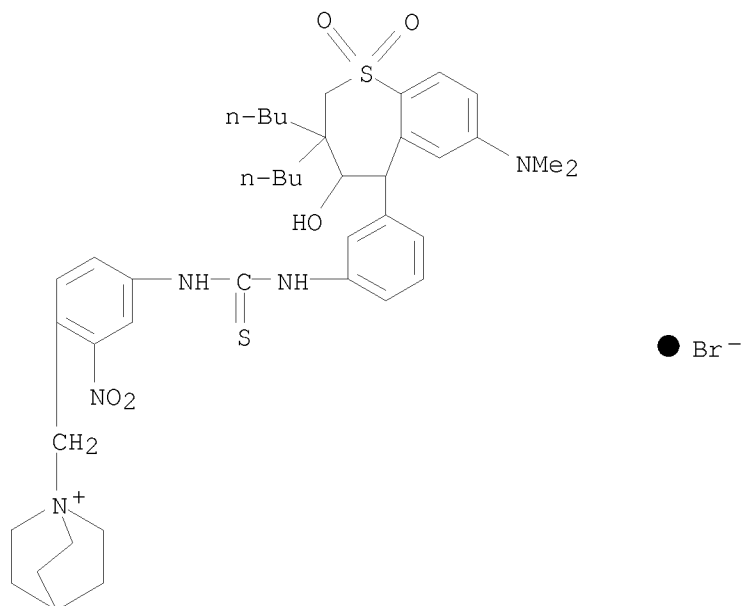
● 2 Br⁻

RN 1234632-80-4 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-methylphenyl]methyl]-, bromide (1:1)
 (CA INDEX NAME)

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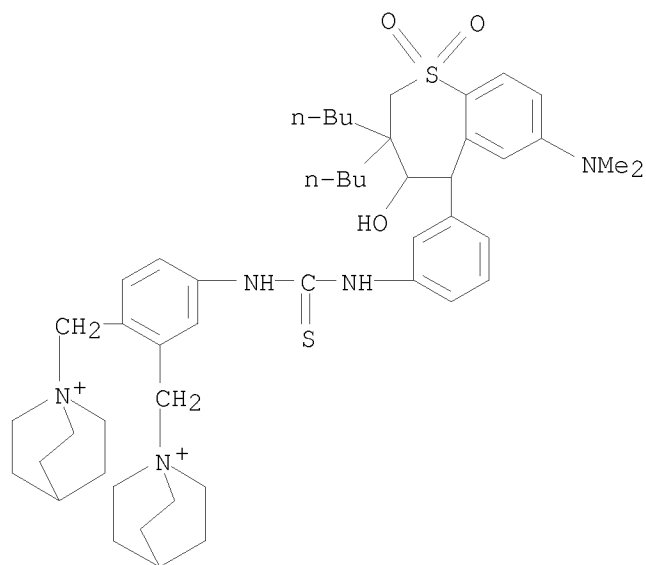


RN 1234632-81-5 CAPLUS
CN 1-Azoniabicyclo[2.2.2]octane, 1-[[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-nitrophenyl]methyl]-, bromide (1:1)
(CA INDEX NAME)



RN 1234632-82-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

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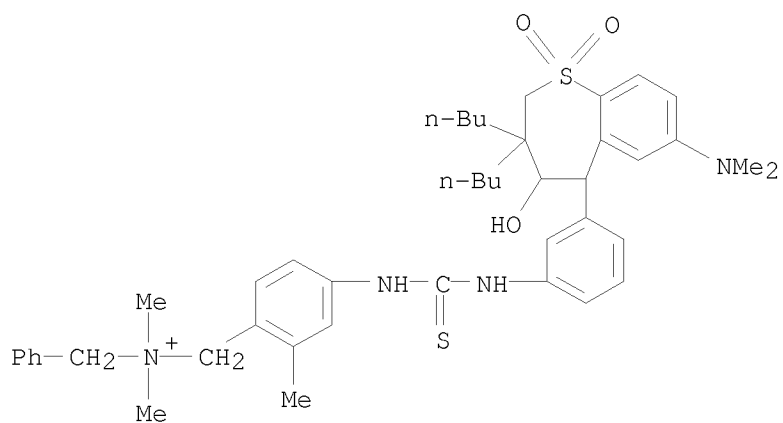


PAGE 2-A

● 2 Br⁻

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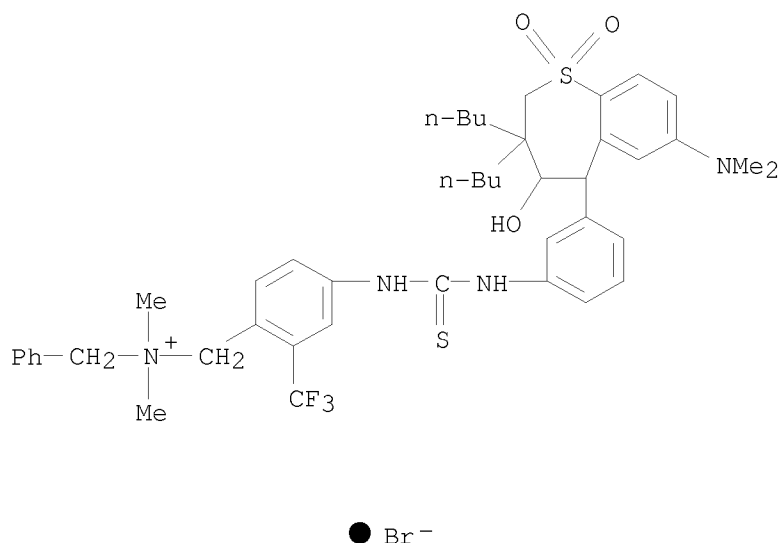
CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N,2-trimethyl-N-(phenylmethyl)-, bromide (1:1) (CA INDEX NAME)

● Br⁻

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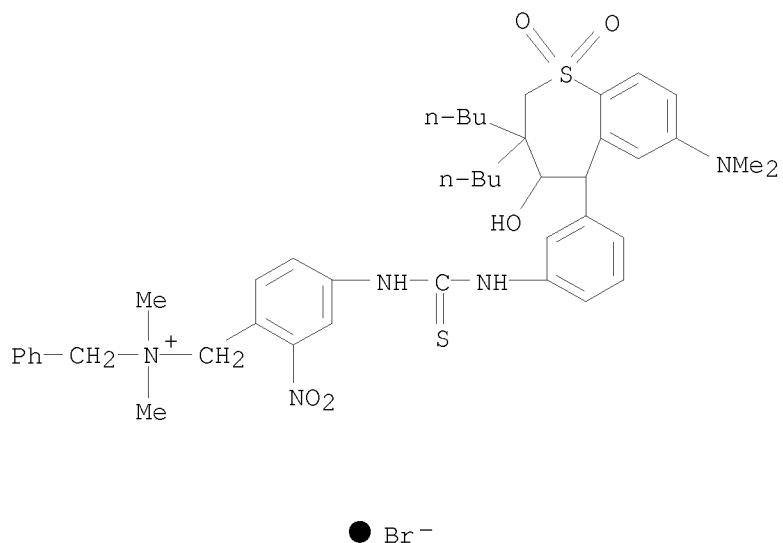
RN 1234632-84-8 CAPLUS

CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-(phenylmethyl)-2-(trifluoromethyl)-, bromide (1:1) (CA INDEX NAME)



RN 1234632-85-9 CAPLUS

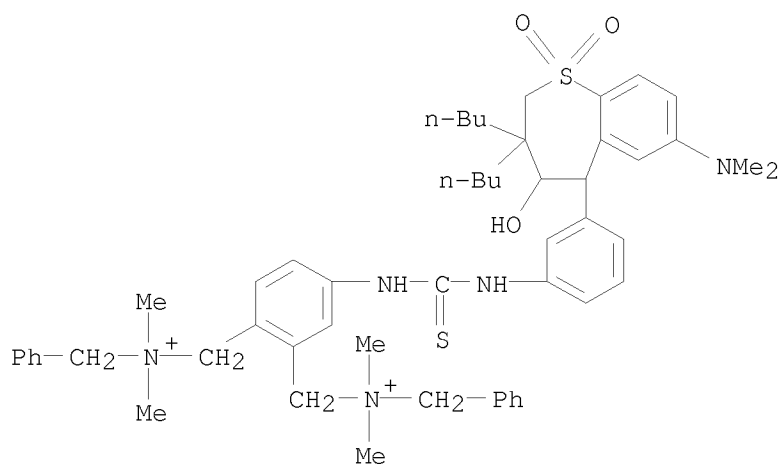
CN Benzenemethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-2-nitro-N-(phenylmethyl)-, bromide (1:1) (CA INDEX NAME)



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RN 1234632-86-0 CAPLUS

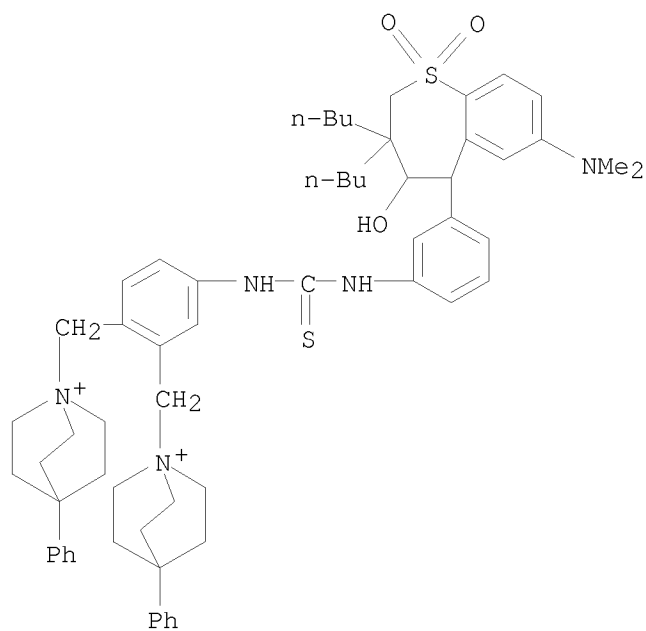
CN 1,2-Benzenedimethanaminium, 4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N1,N1,N2,N2-tetramethyl-N1,N2-bis(phenylmethyl)-, bromide (1:2) (CA INDEX NAME)



● 2 Br⁻

RN 1234632-87-1 CAPLUS

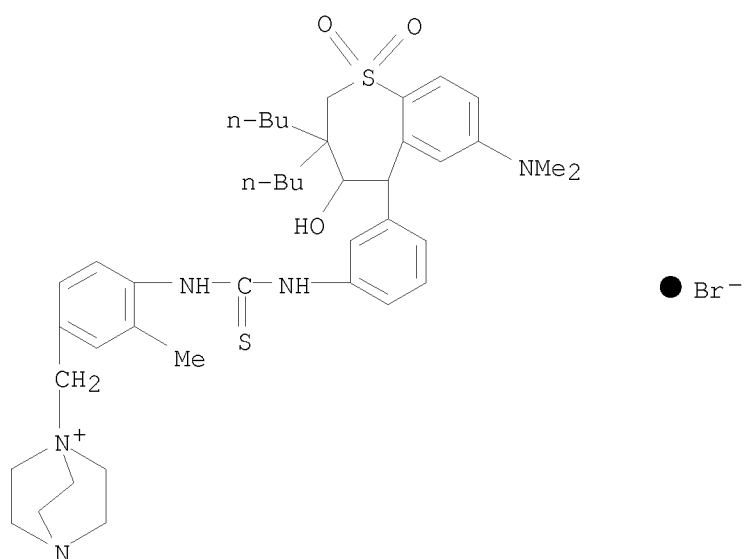
CN INDEX NAME NOT YET ASSIGNED



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● 2 Br⁻

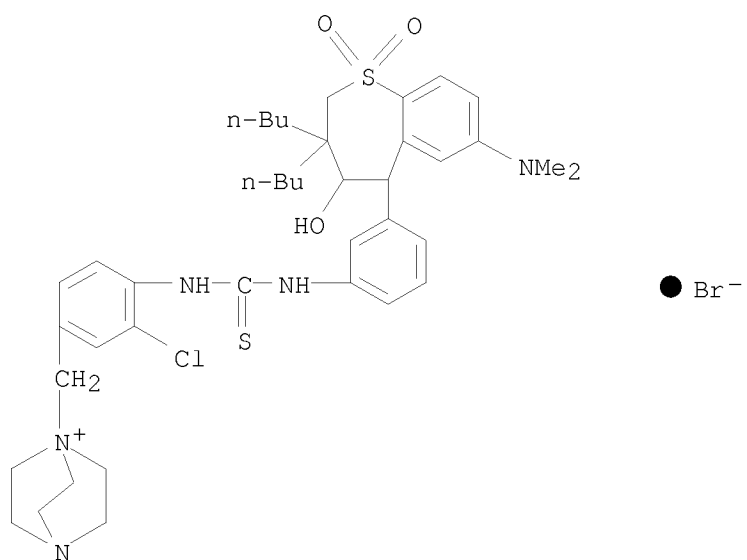
RN 1234632-88-2 CAPLUS
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-
 1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-
 methylphenyl]methyl]-, bromide (1:1) (CA INDEX NAME)



RN 1234632-89-3 CAPLUS
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-
 1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-
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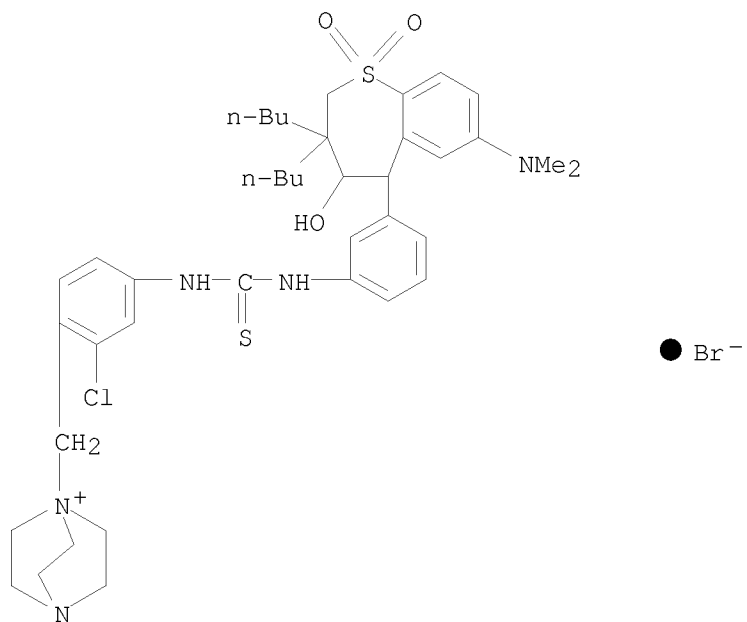
10/598,458

CN INDEX NAME NOT YET ASSIGNED



RN 1234632-92-8 CAPLUS

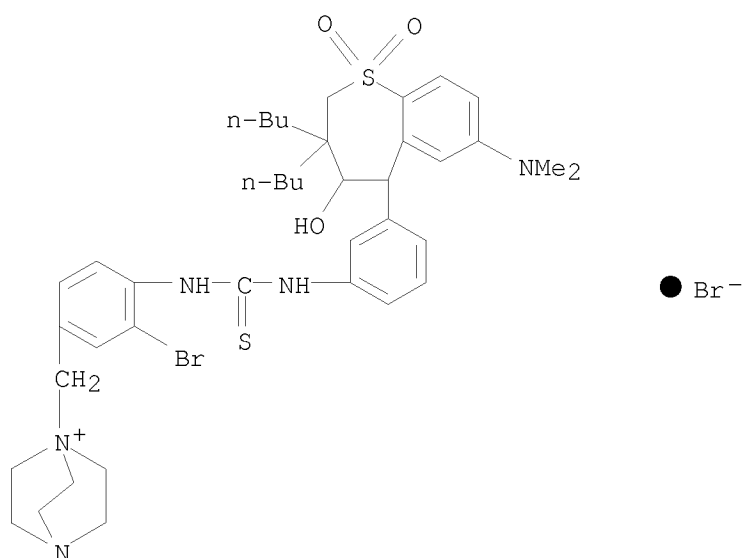
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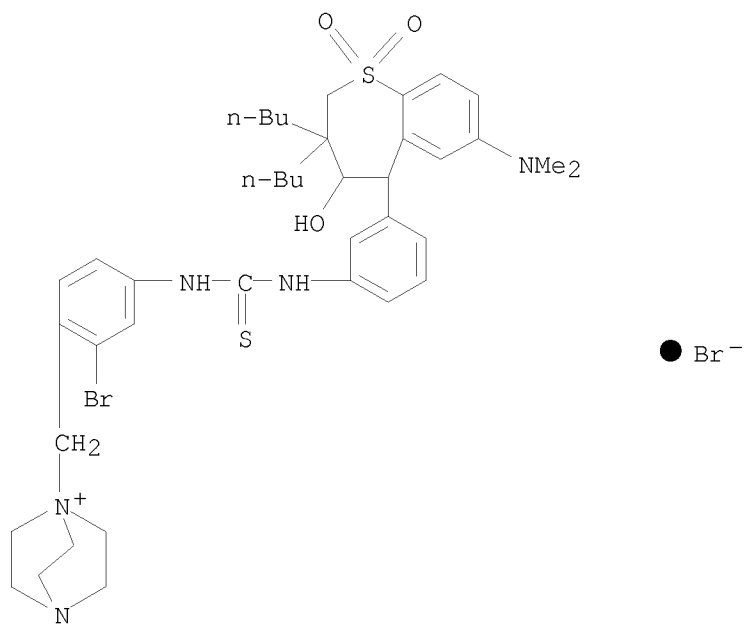
RN 1234632-93-9 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

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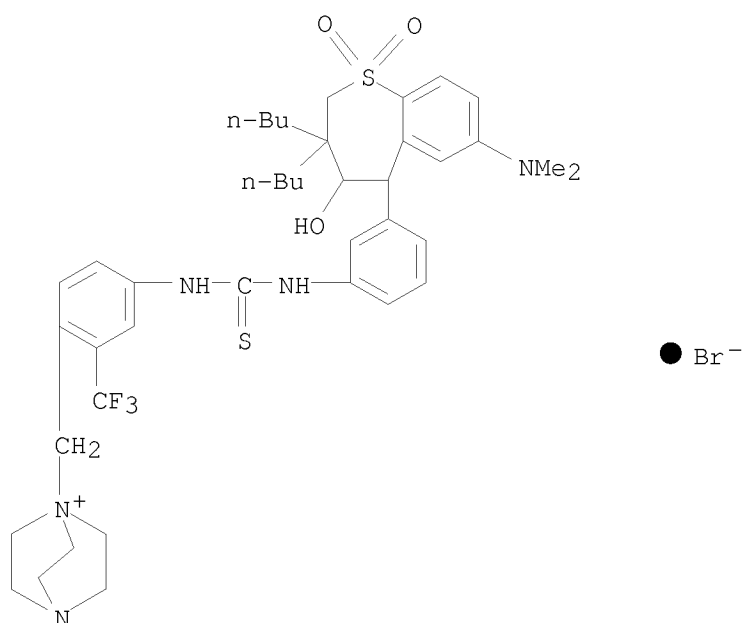


RN 1234632-94-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

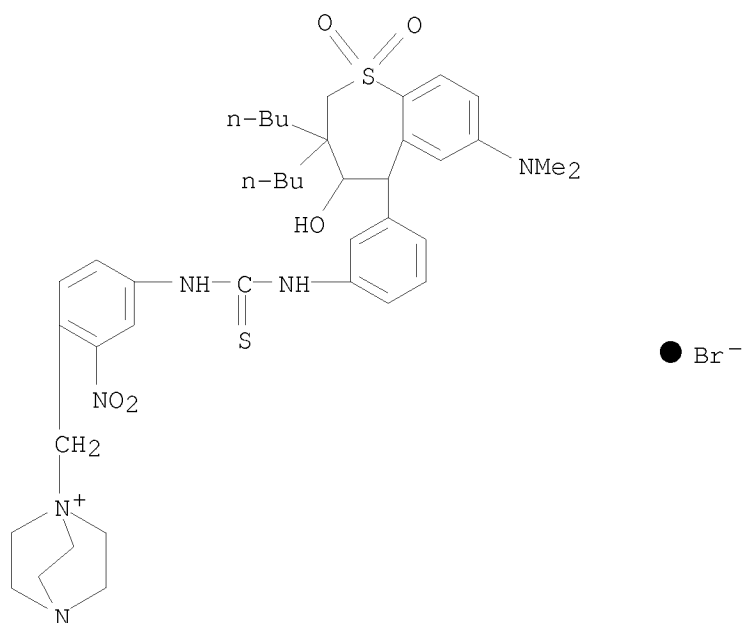


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1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-
(trifluoromethyl)phenyl]methyl]-, bromide (1:1) (CA INDEX NAME)

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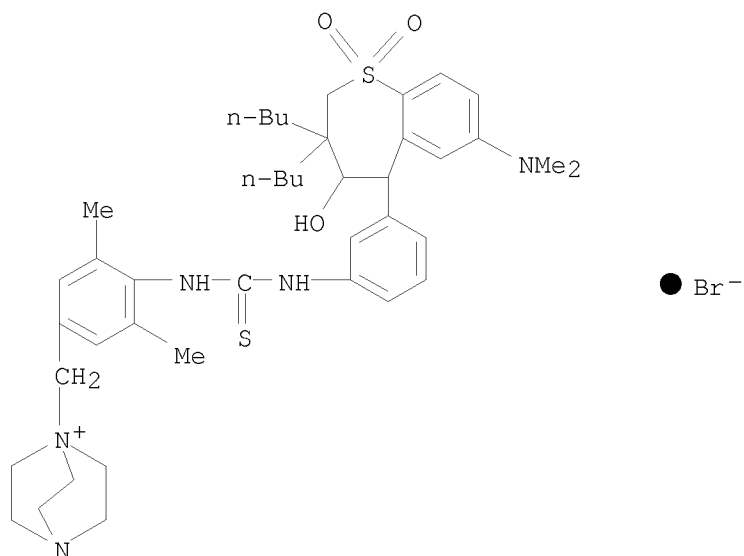
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CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
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1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-
nitrophenyl]methyl]-, bromide (1:1) (CA INDEX NAME)



RN 1234632-97-3 CAPLUS
CN 4-Aza-1-azoniabicyclo[2.2.2]octane,

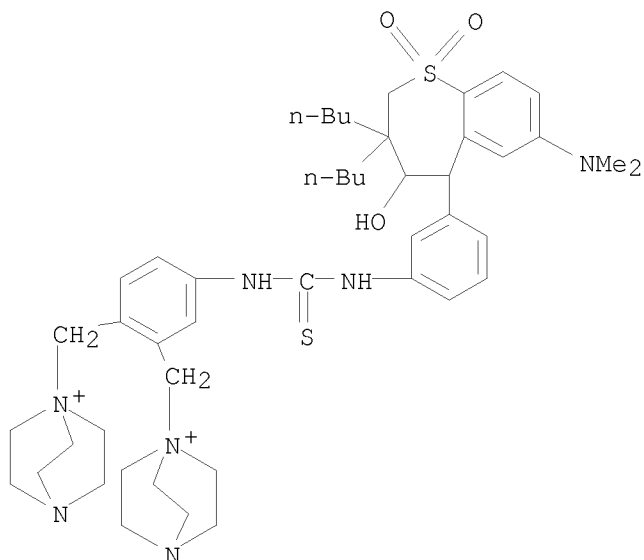
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1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3,5-dimethylphenyl]methyl]-, bromide (1:1) (CA INDEX NAME)



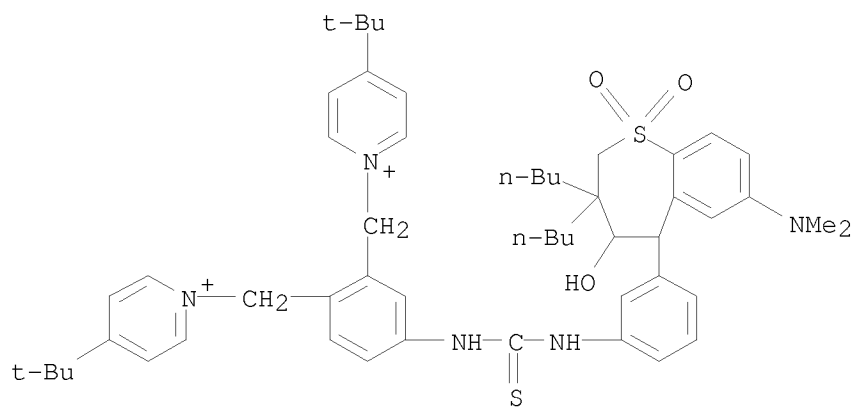
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CN INDEX NAME NOT YET ASSIGNED

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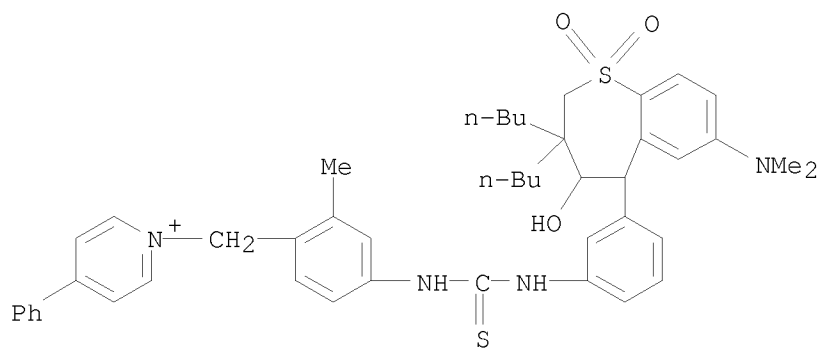


● 2 Br⁻

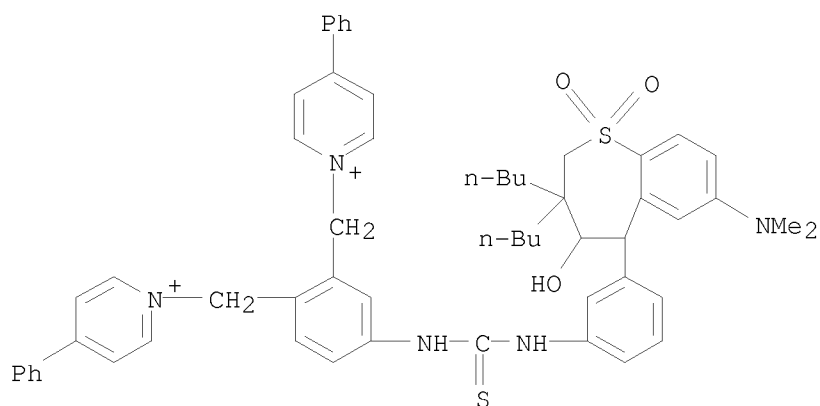
RN 1234632-99-5 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

● 2 Br⁻

RN 1234633-00-1 CAPLUS
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● Br⁻

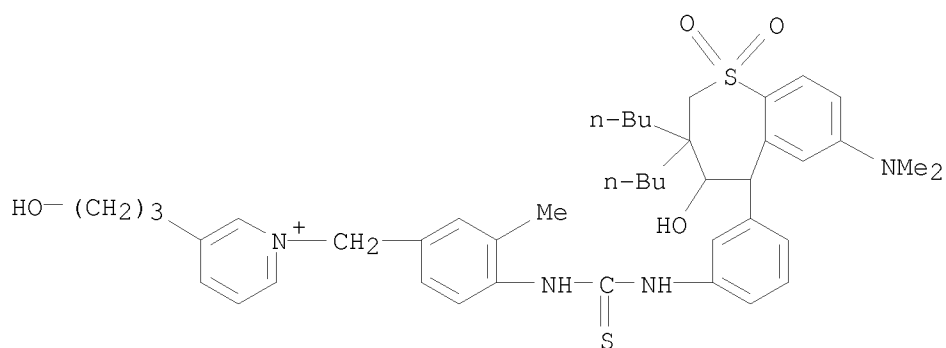
RN 1234633-01-2 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



● 2 Br⁻

RN 1234633-02-3 CAPLUS

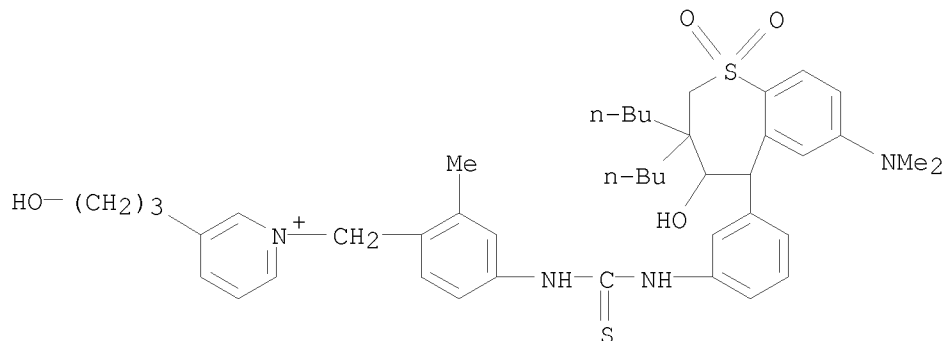
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-methylphenyl]methyl]-3-(3-hydroxypropyl)-, bromide (1:1) (CA INDEX NAME)



● Br⁻

RN 1234633-03-4 CAPLUS

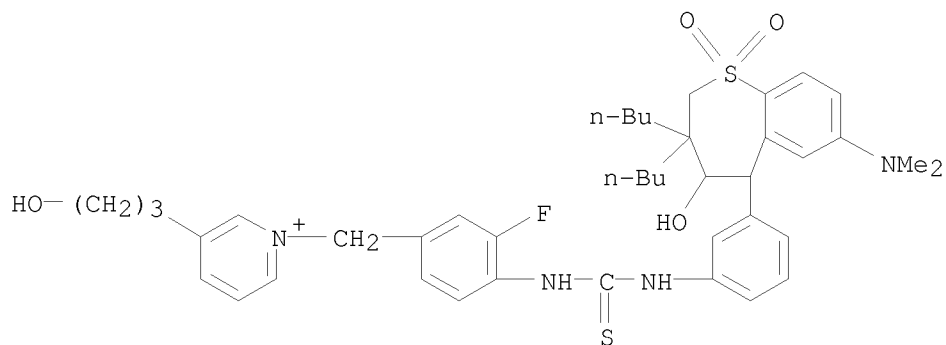
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● Br⁻

RN 1234633-04-5 CAPLUS

CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-fluorophenyl]methyl]-3-(3-hydroxypropyl)-, bromide (1:1) (CA INDEX NAME)

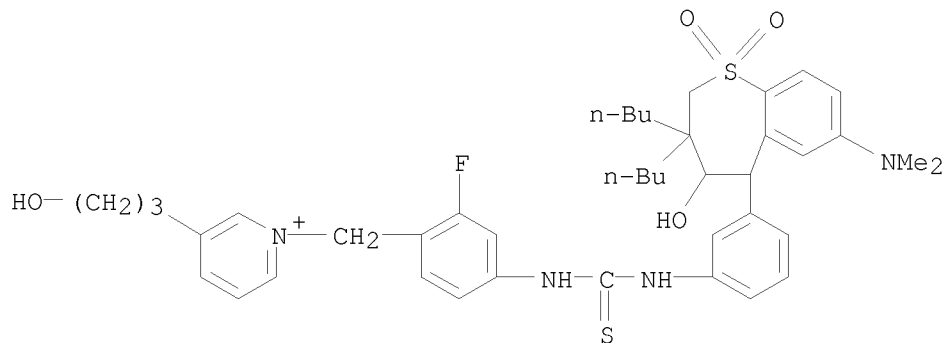


● Br⁻

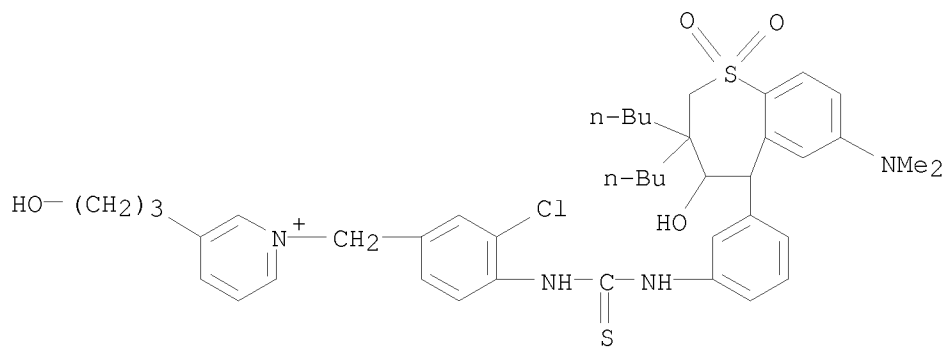
RN 1234633-05-6 CAPLUS

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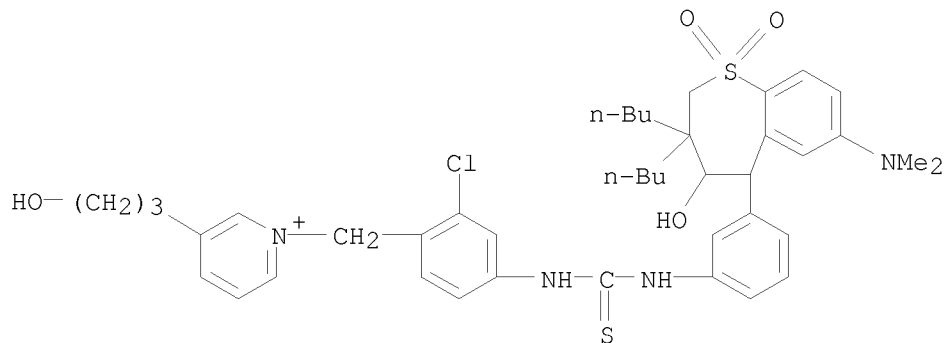


RN 1234633-06-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



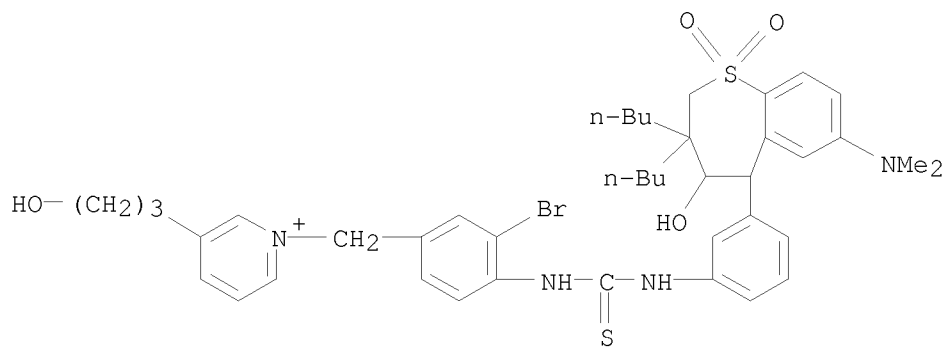
RN 1234633-07-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

10/598,458



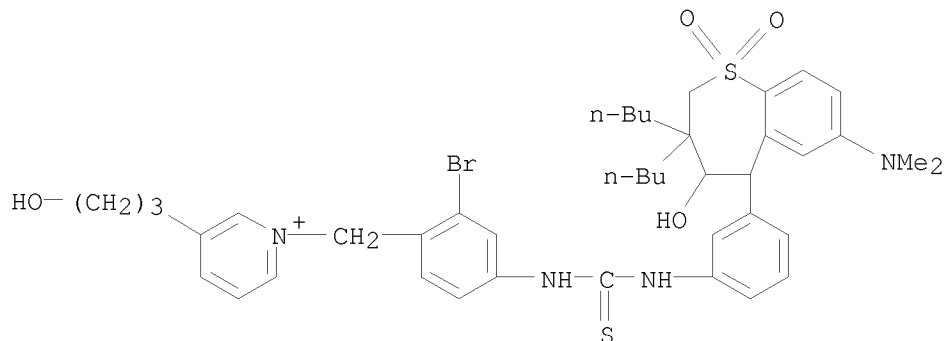
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RN 1234633-08-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



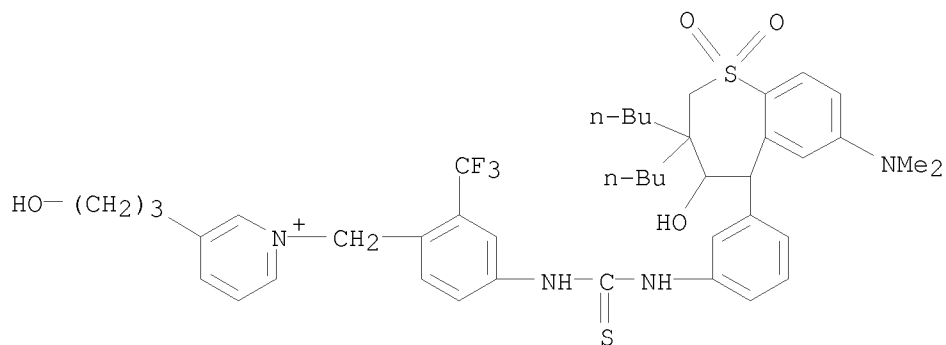
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RN 1234633-09-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

● Br⁻

RN 1234633-10-3 CAPLUS

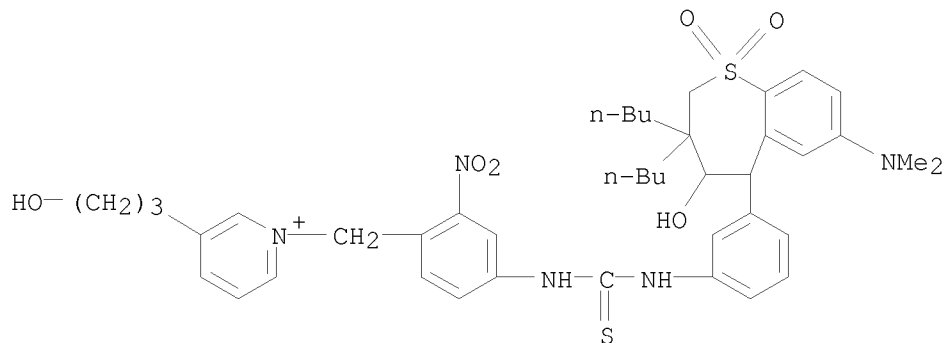
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● Br⁻

RN 1234633-11-4 CAPLUS

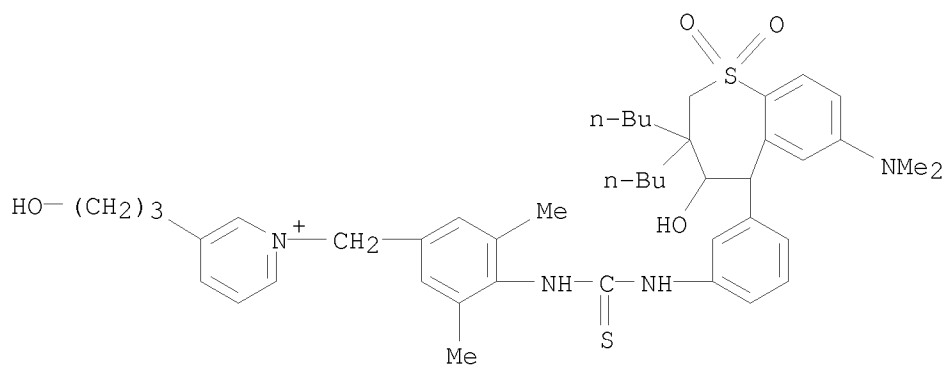
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-nitrophenyl]methyl]-3-(3-hydroxypropyl)-, bromide (1:1) (CA INDEX NAME)

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● Br⁻

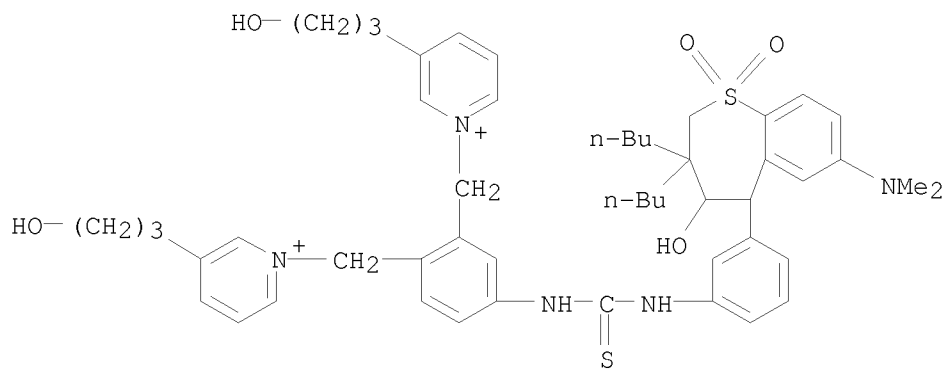
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● Br⁻

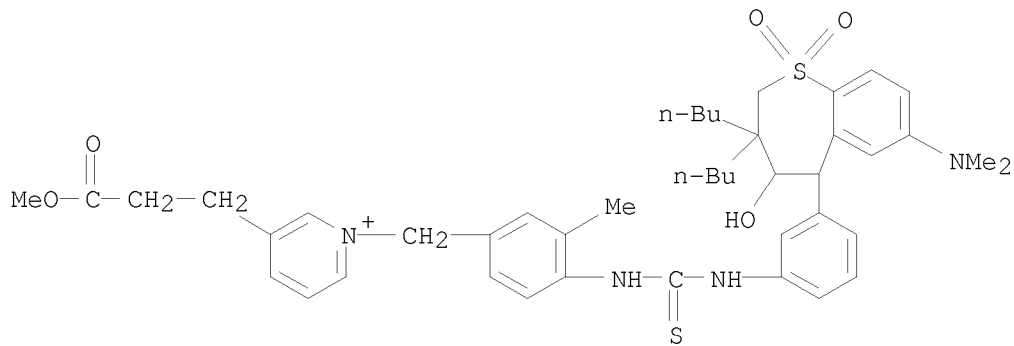
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CN INDEX NAME NOT YET ASSIGNED

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● 2 Br⁻

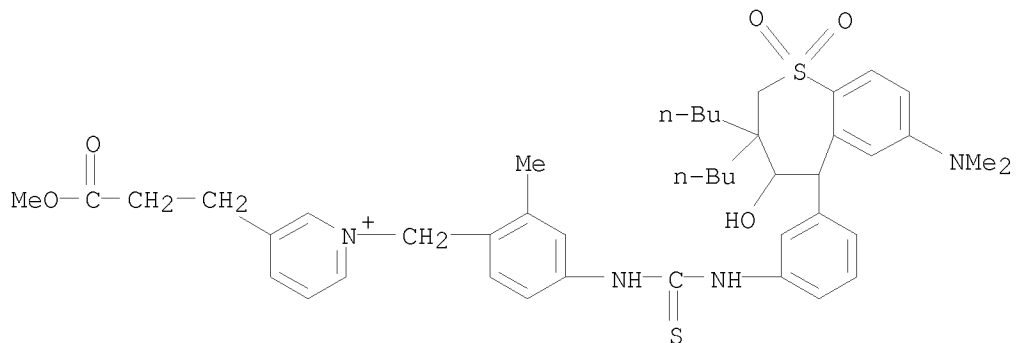
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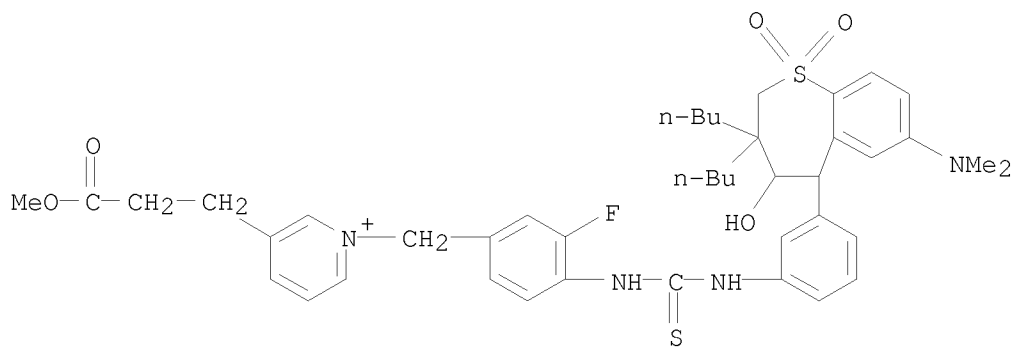
● Br⁻

RN 1234633-15-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

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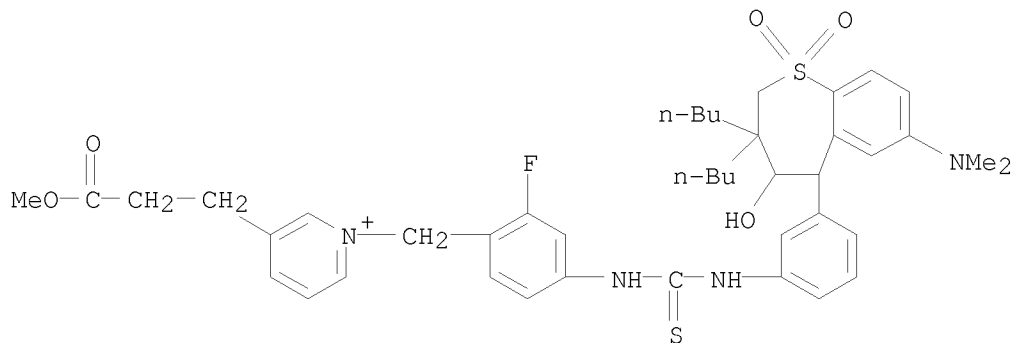


RN 1234633-16-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

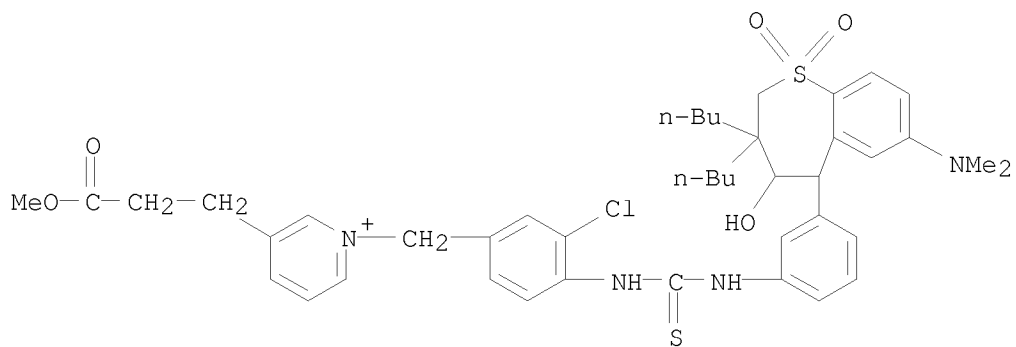


RN 1234633-17-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

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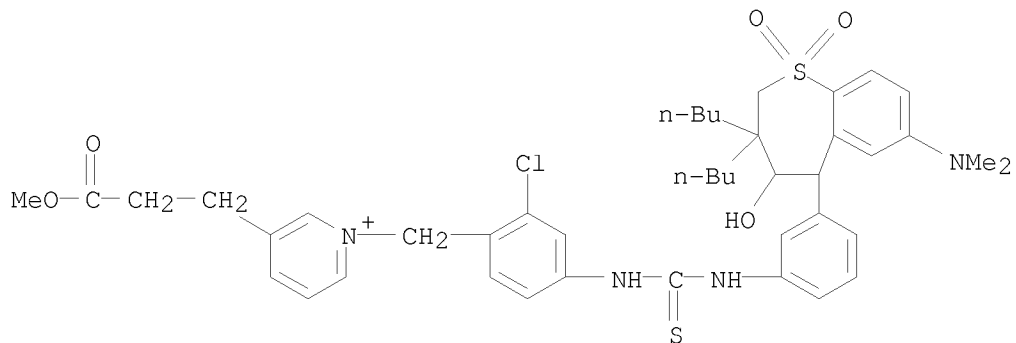


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CN INDEX NAME NOT YET ASSIGNED

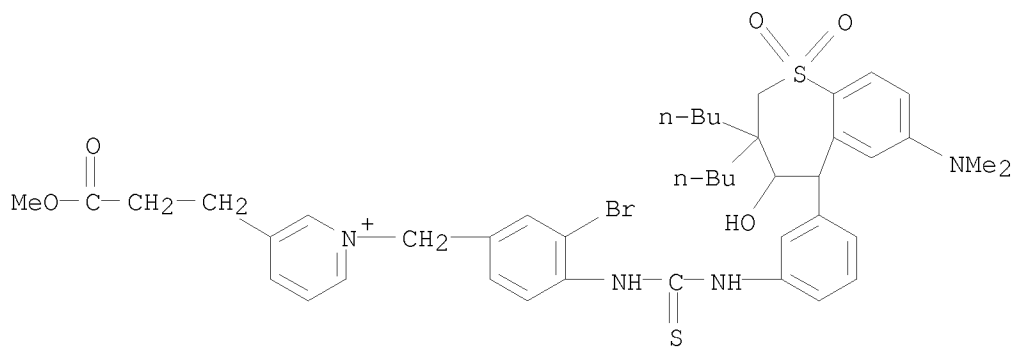


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CN INDEX NAME NOT YET ASSIGNED

10/598,458

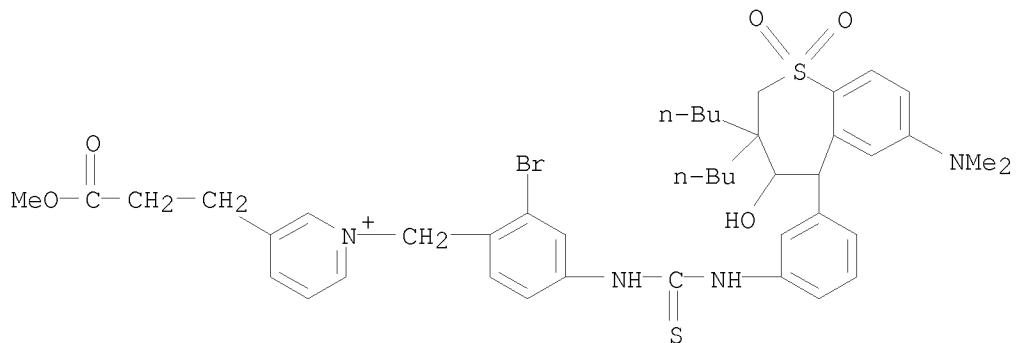


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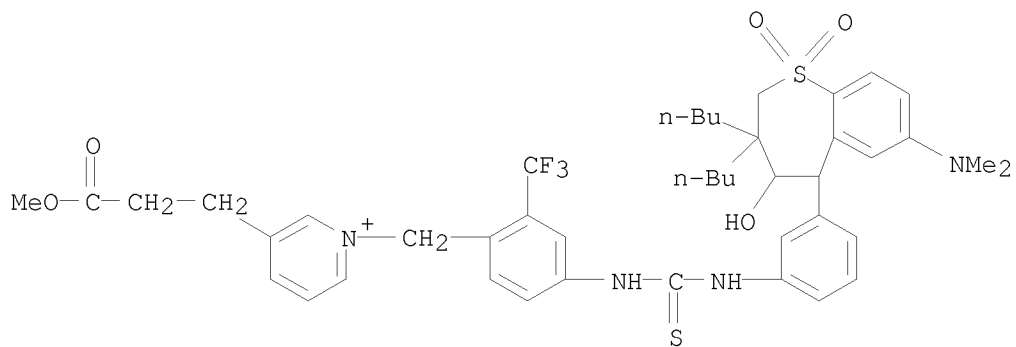


RN 1234633-21-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

10/598,458

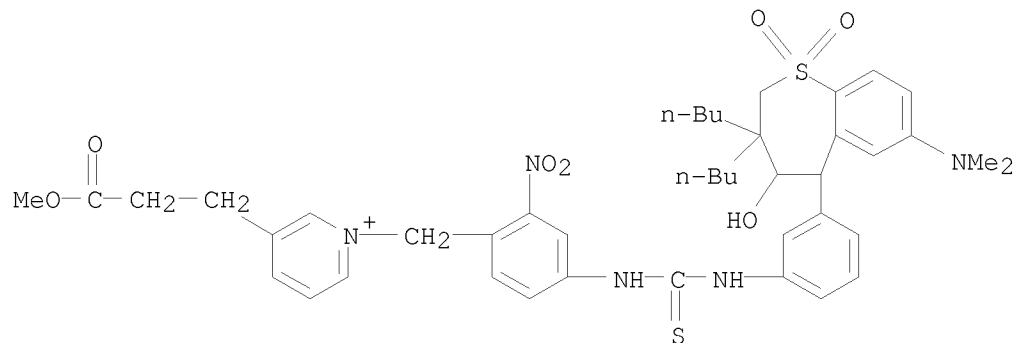


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CN INDEX NAME NOT YET ASSIGNED



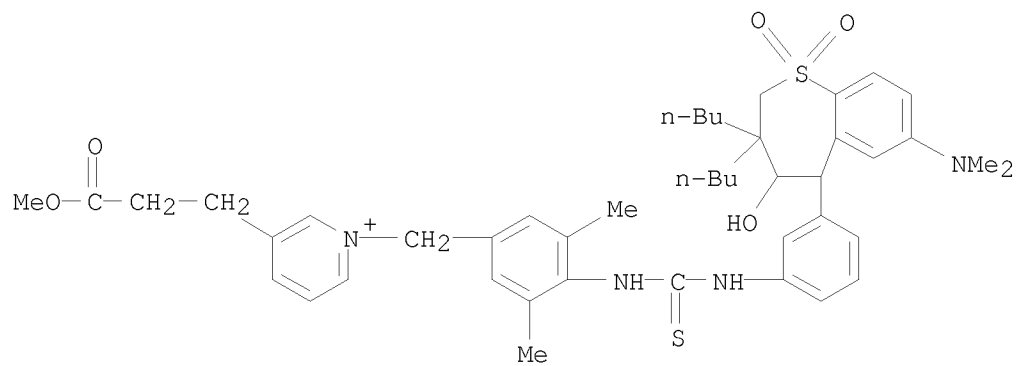
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CN INDEX NAME NOT YET ASSIGNED

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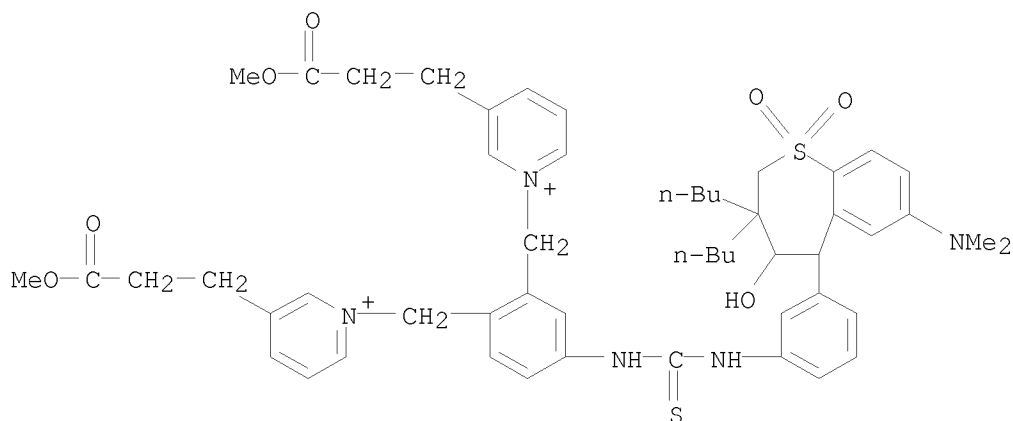
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RN 1234633-24-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



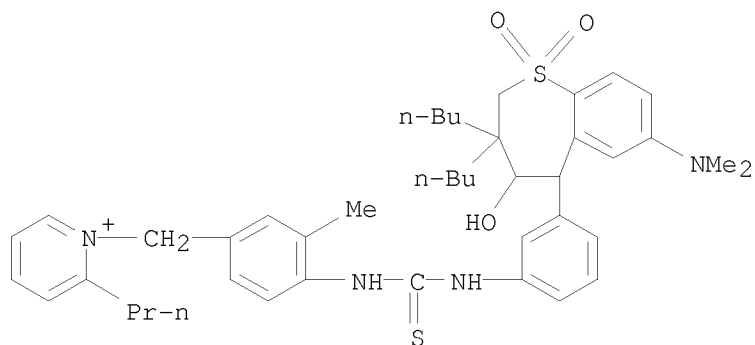
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RN 1234633-25-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

● 2 Br⁻

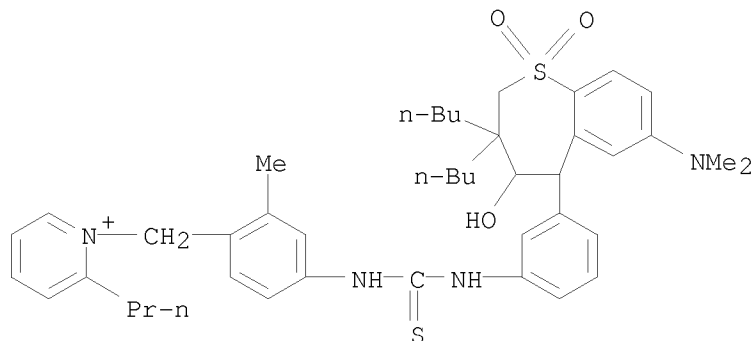
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● Br⁻

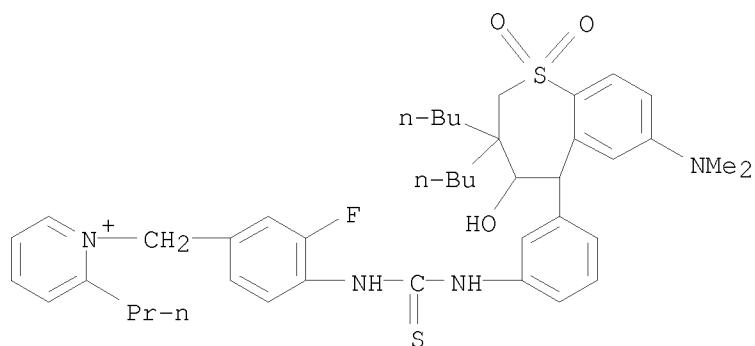
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CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-2-methylphenyl]methyl]-2-propyl-, bromide (1:1) (CA INDEX NAME)



RN 1234633-28-3 CAPLUS

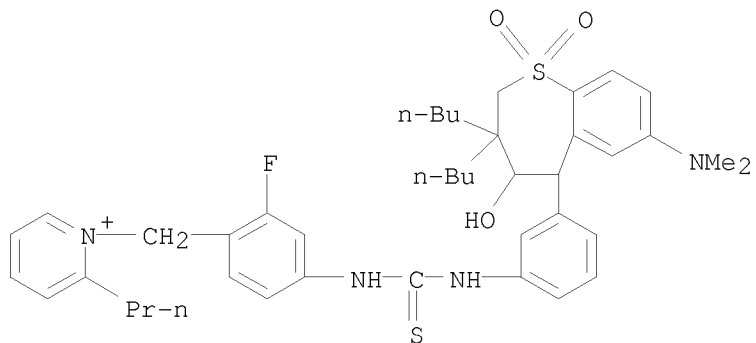
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-fluorophenyl]methyl]-2-propyl-, bromide (1:1) (CA INDEX NAME)



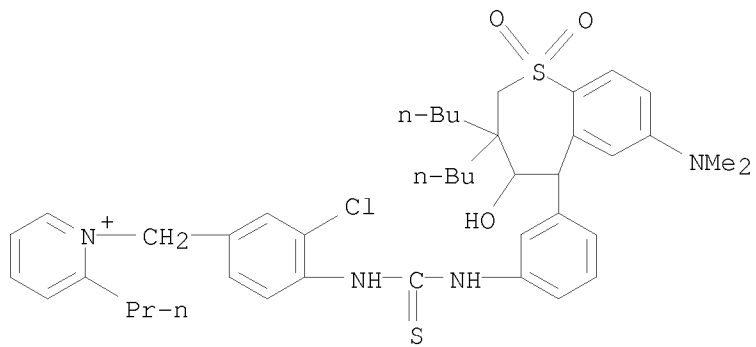
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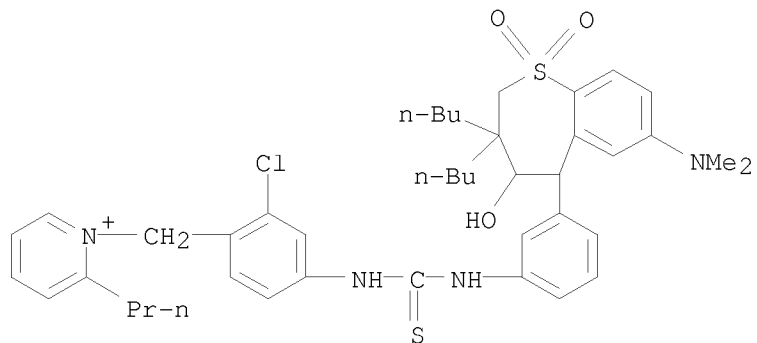


RN 1234633-30-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



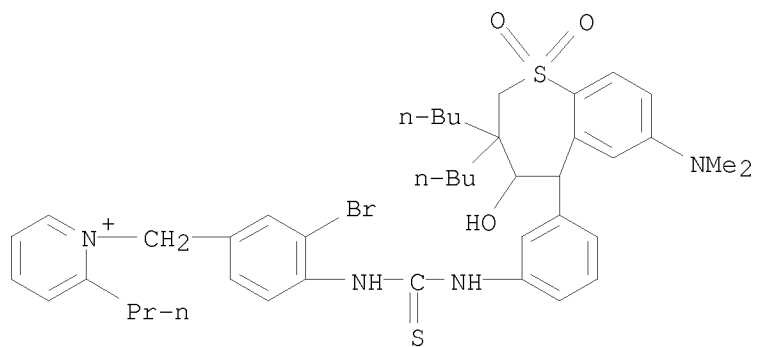
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CN INDEX NAME NOT YET ASSIGNED
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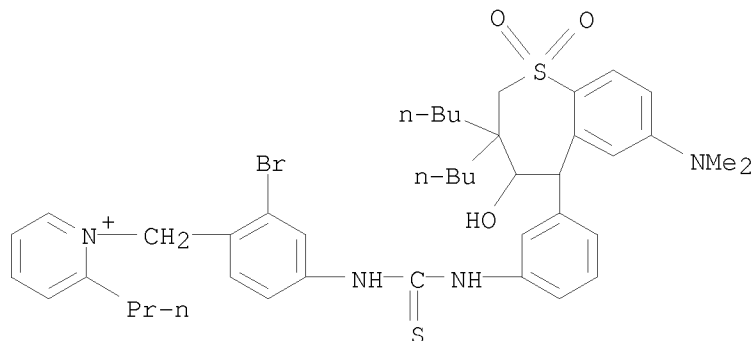
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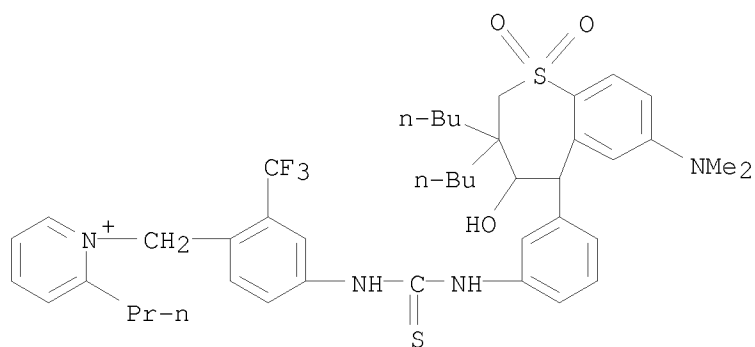


● Br⁻

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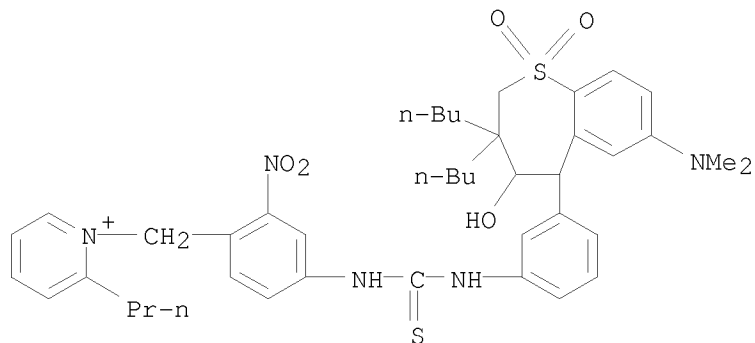


RN 1234633-34-1 CAPLUS
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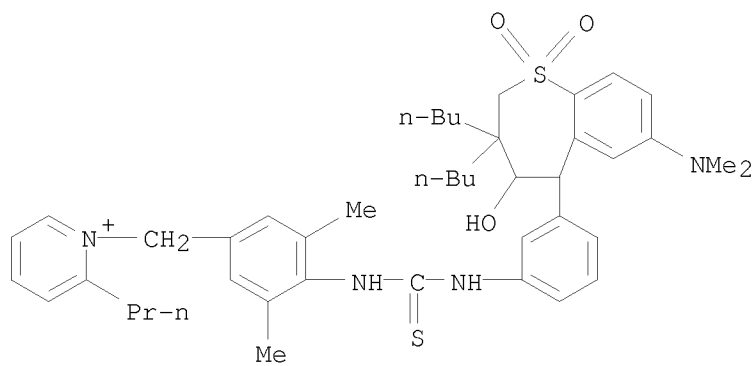
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RN 1234633-36-3 CAPLUS

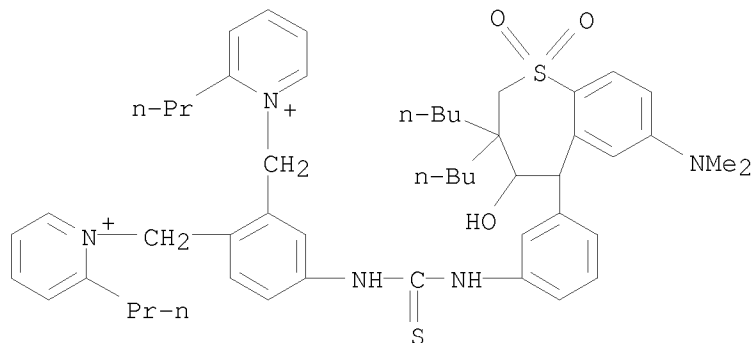
CN Pyridinium, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3,5-dimethylphenyl]methyl]-2-propyl-, bromide (1:1) (CA INDEX NAME)



RN 1234633-37-4 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

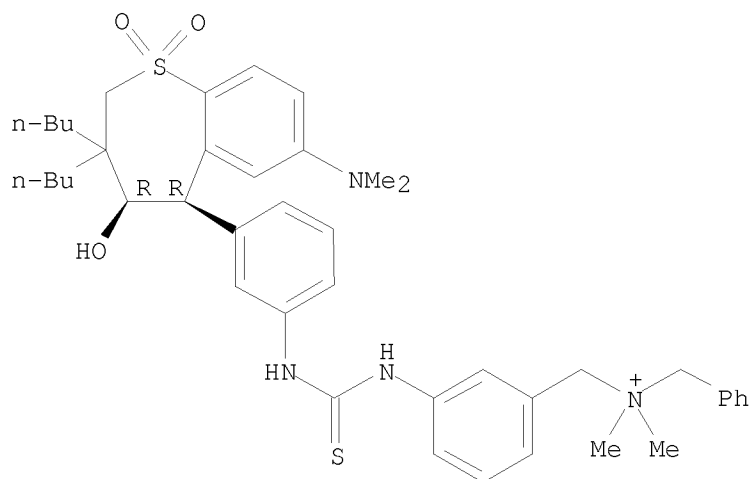
10/598,458



● 2 Br⁻

RN 1234653-35-0 CAPLUS
CN Benzenemethanaminium, 3-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-N,N-dimethyl-N-(phenylmethyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

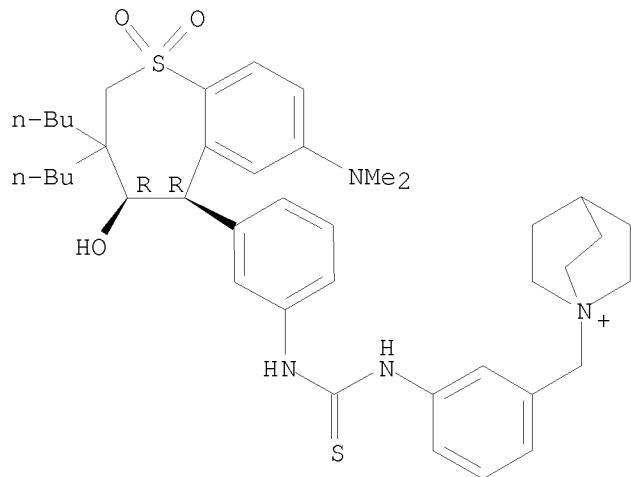


● Br⁻

RN 1234653-36-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

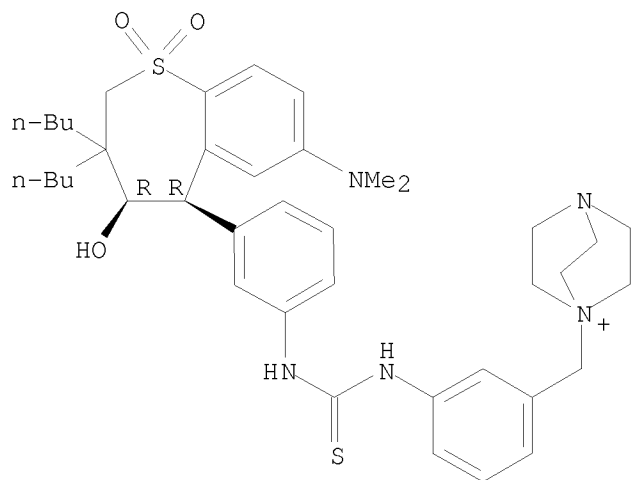
Relative stereochemistry.

10/598,458



RN 1234653-37-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

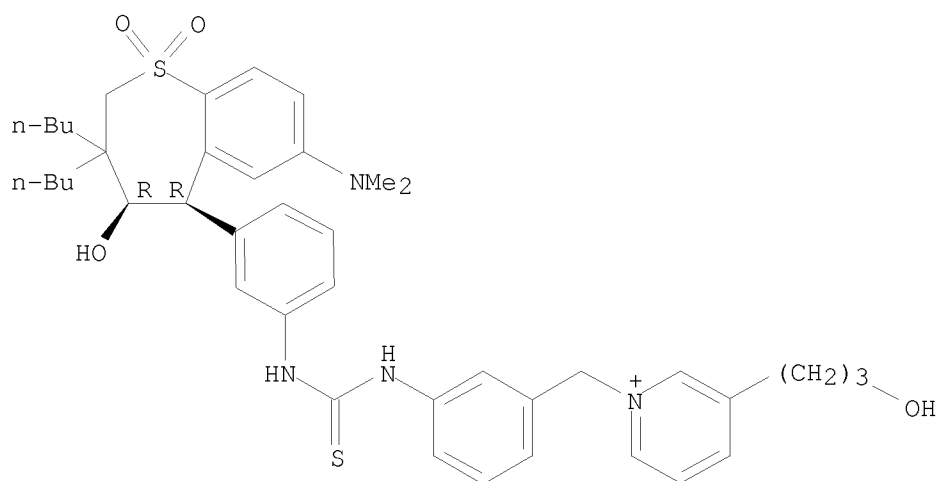
Relative stereochemistry.



RN 1234653-38-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

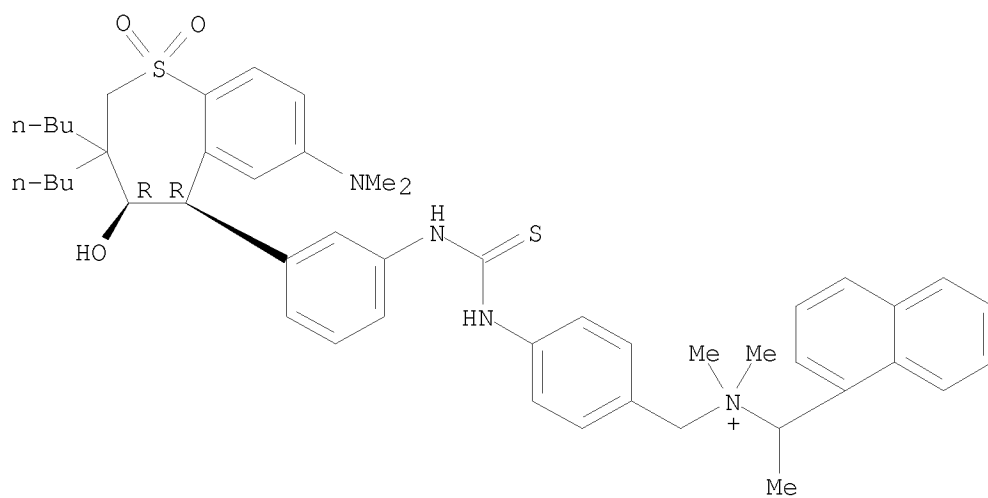
Relative stereochemistry.

10/598,458



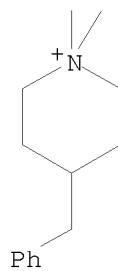
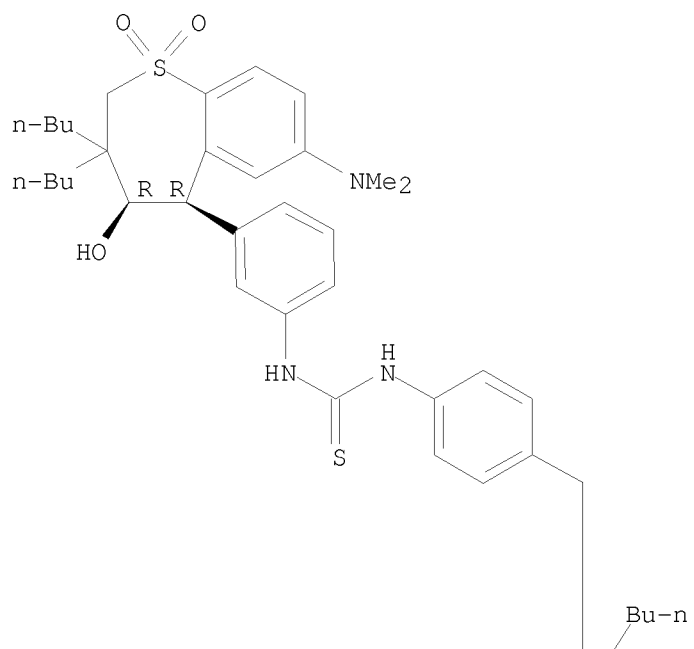
RN 1234653-39-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.



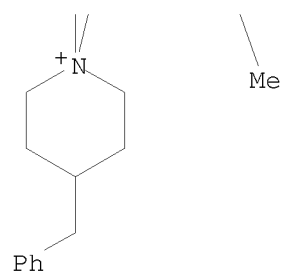
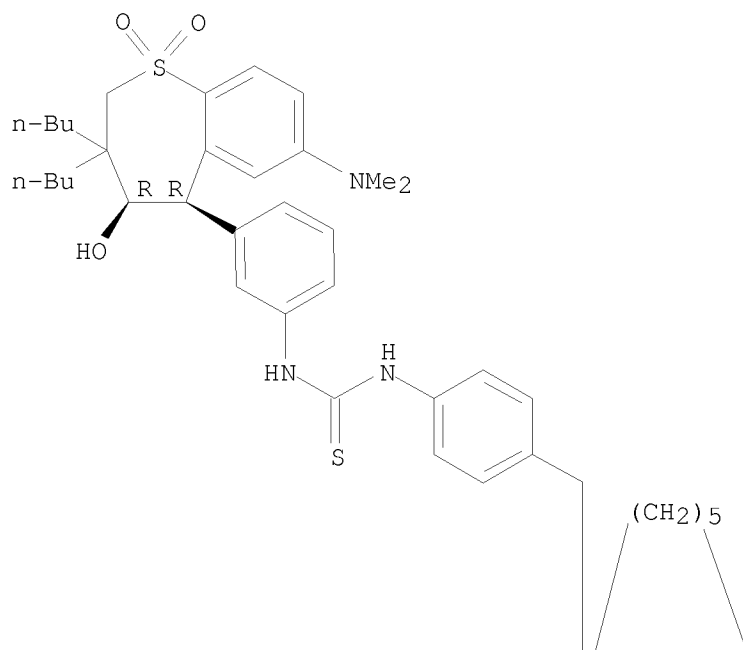
RN 1234694-11-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.



RN 1234694-12-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

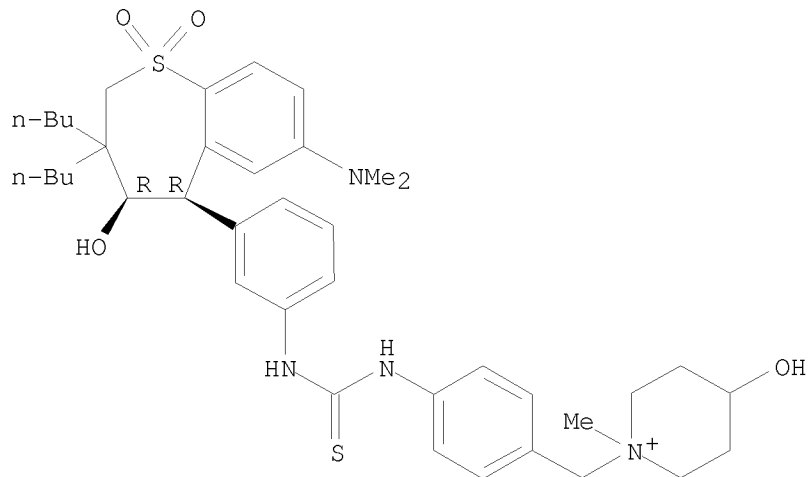
Relative stereochemistry.



RN 1234694-13-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

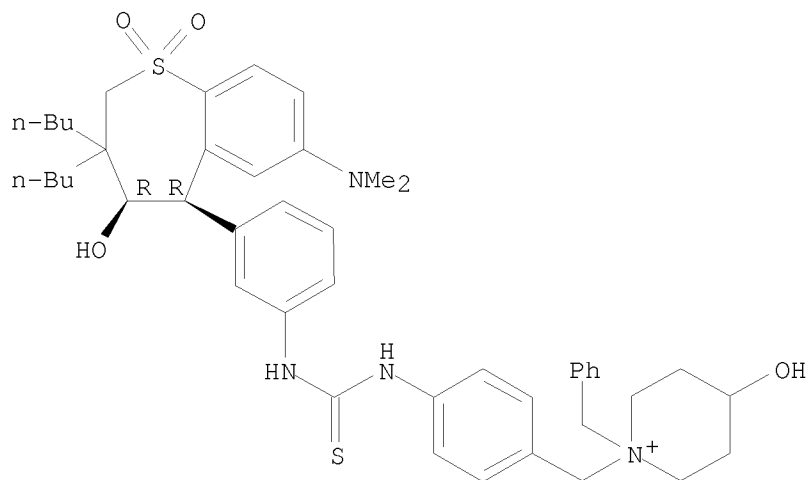
Relative stereochemistry.

10/598,458



RN 1234694-14-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

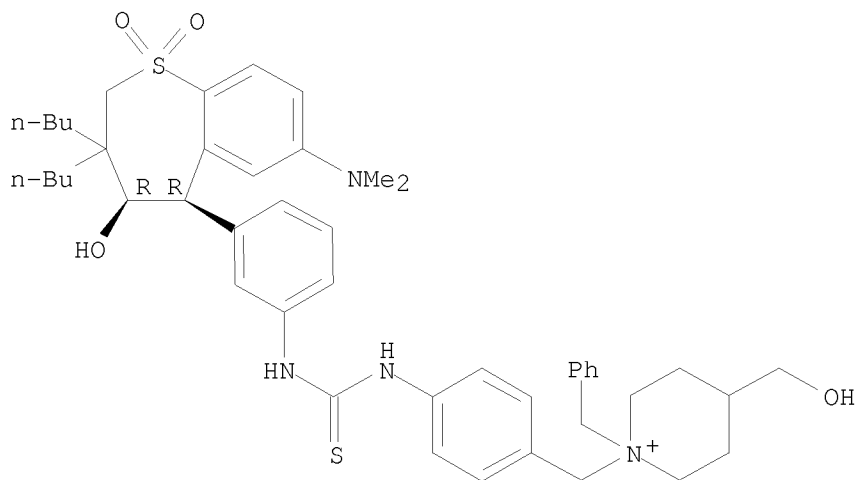
Relative stereochemistry.



RN 1234694-15-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

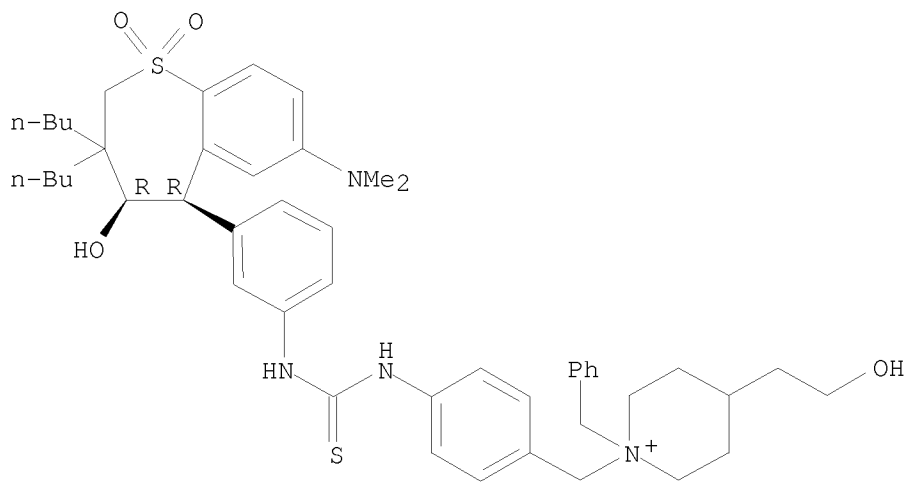
10/598,458



● Br⁻

RN 1234694-16-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.

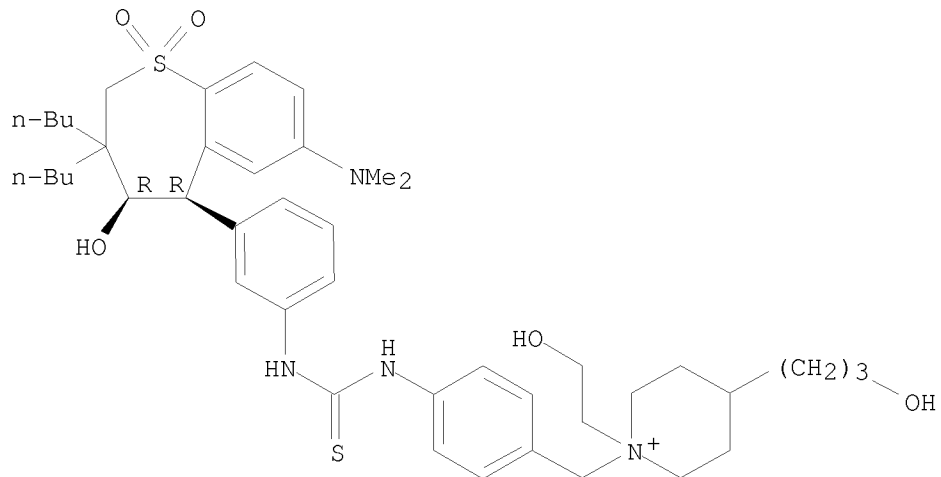


● Br⁻

RN 1234694-17-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

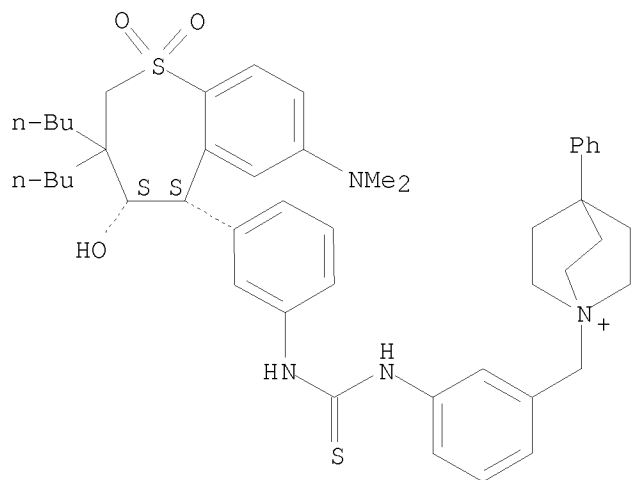
Relative stereochemistry.

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RN 1246371-57-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

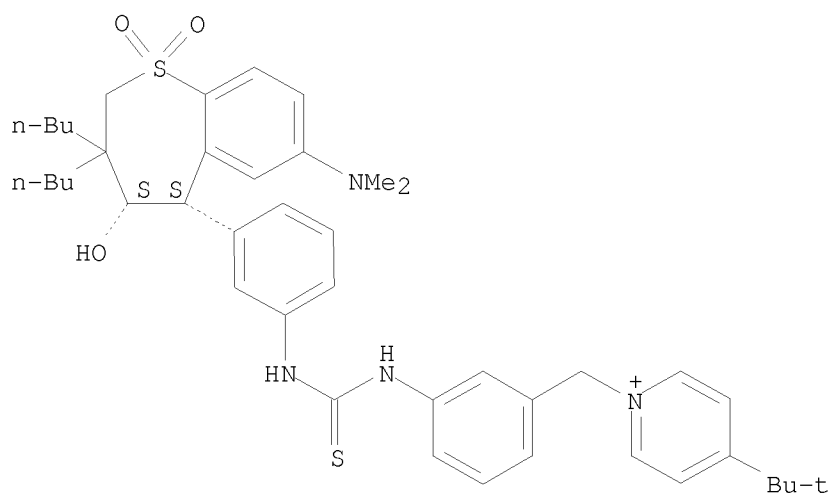
Relative stereochemistry.



RN 1246371-59-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

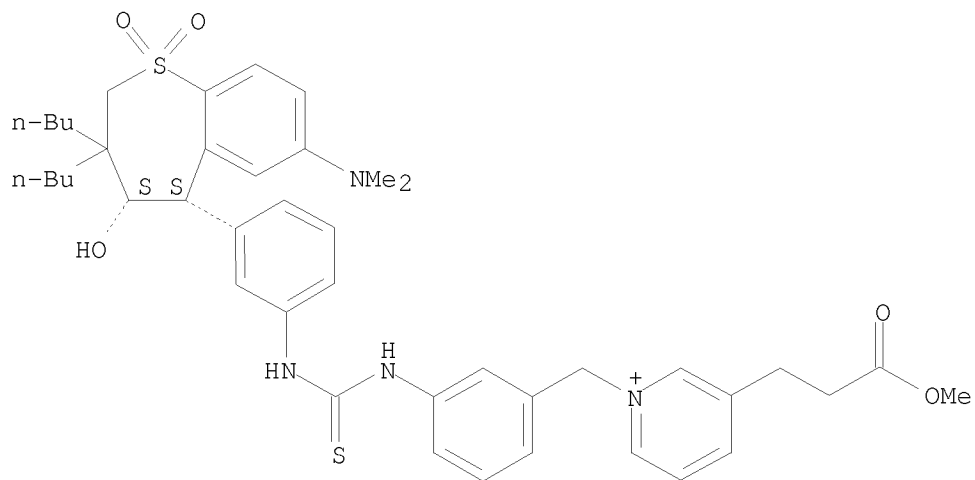
Relative stereochemistry.

10/598,458



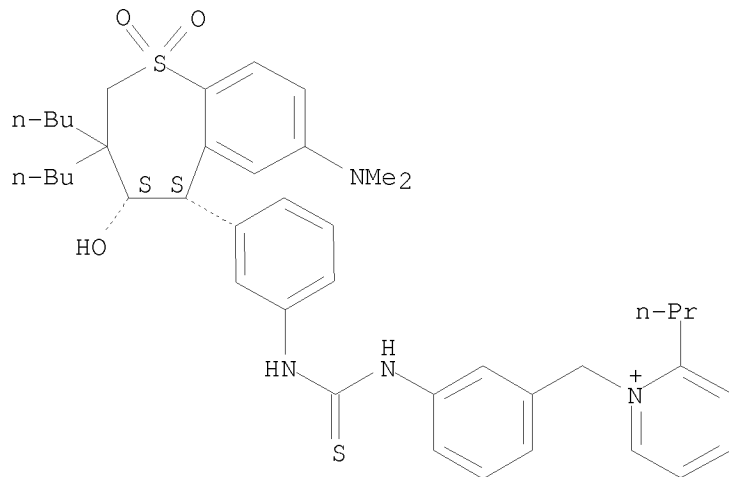
RN 1246371-60-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.



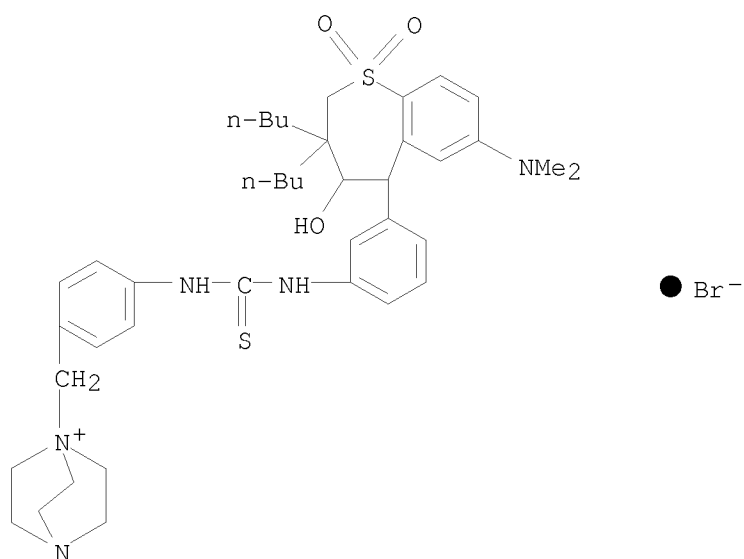
RN 1246371-61-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Relative stereochemistry.



● Br⁻

IT 864348-68-5P 864348-70-9P 864348-71-0P
 864348-72-1P 864348-73-2P 1246369-95-8P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (preparation of benzothiazepine and benzothiepine compds. for prevention and
 treatment of hyperlipemia and lowering cholesterol)
 RN 864348-68-5 CAPLUS
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-
 1,1-dioxido-1-benzothiepin-5-
 yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-, bromide (1:1) (CA
 INDEX NAME)

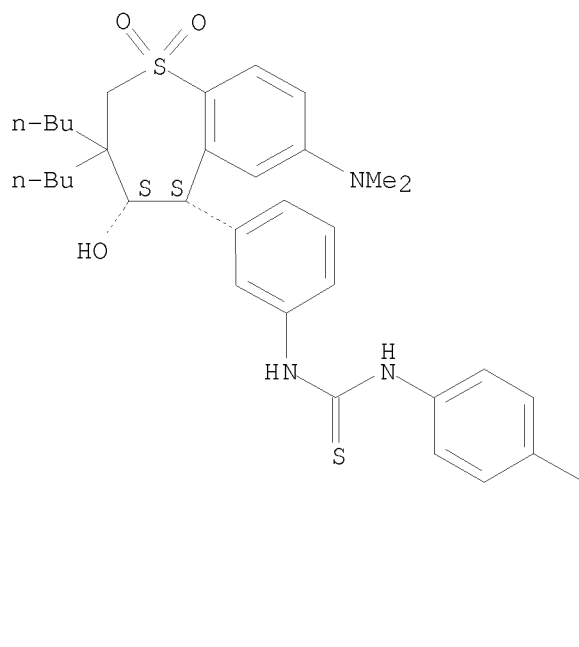


RN 864348-70-9 CAPLUS

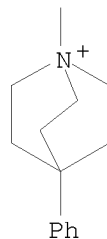
CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-phenyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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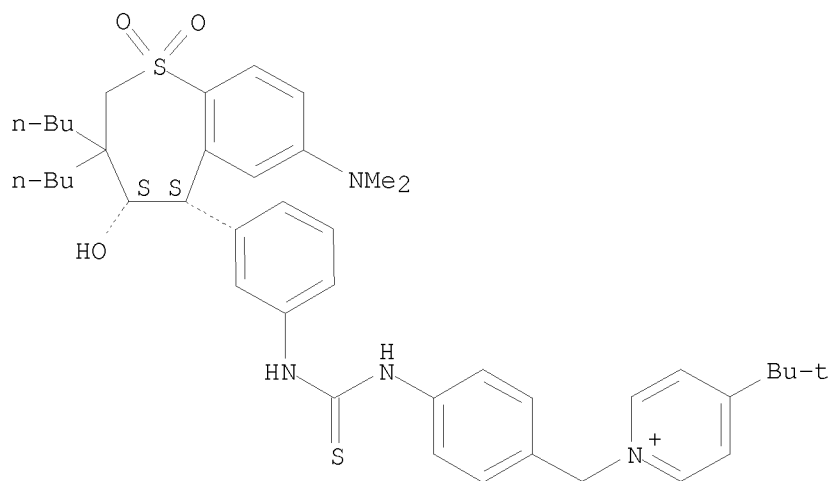


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RN 864348-71-0 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-4-(1,1-dimethylethyl)-, bromide (1:1), rel- (CA INDEX NAME)

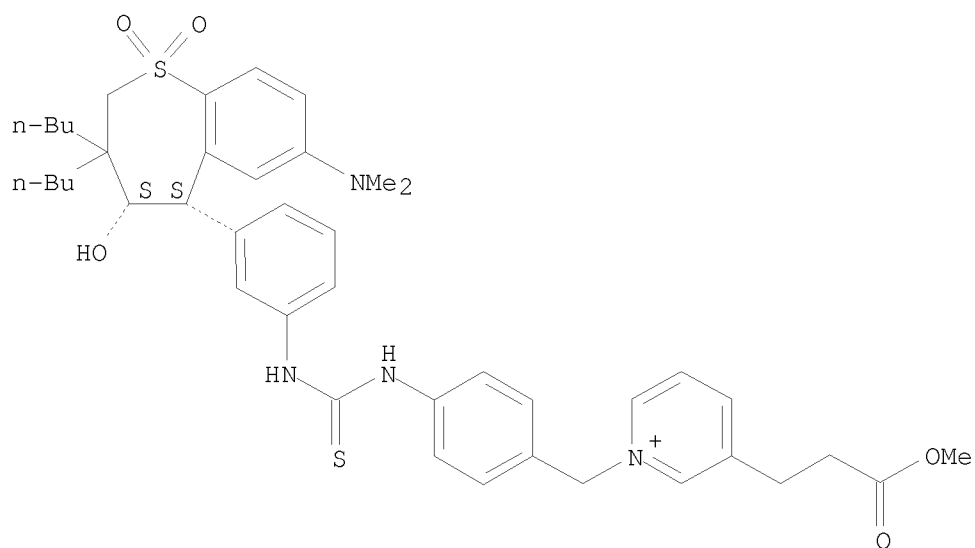
Relative stereochemistry.



RN 864348-72-1 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-3-(3-methoxy-3-oxopropyl)-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

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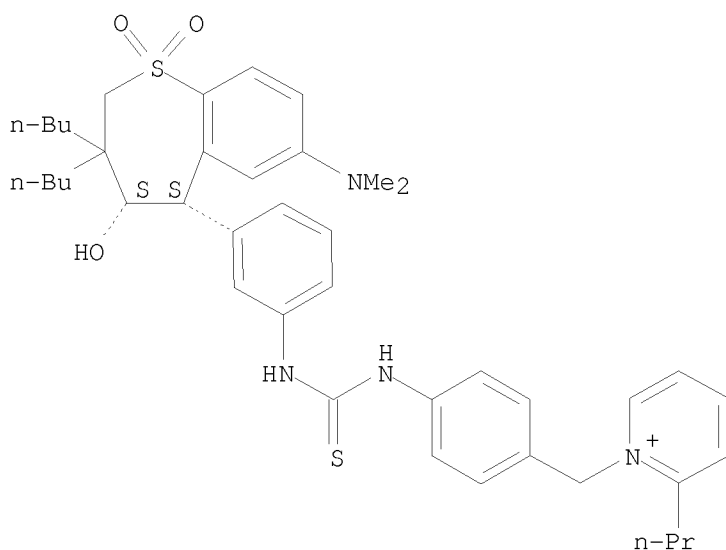
PAGE 2-A



RN 864348-73-2 CAPLUS
 CN Pyridinium, 1-[[4-[[[3-[(4R,5R)-3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]-2-propyl-, bromide (1:1), rel- (CA INDEX NAME)

Relative stereochemistry.

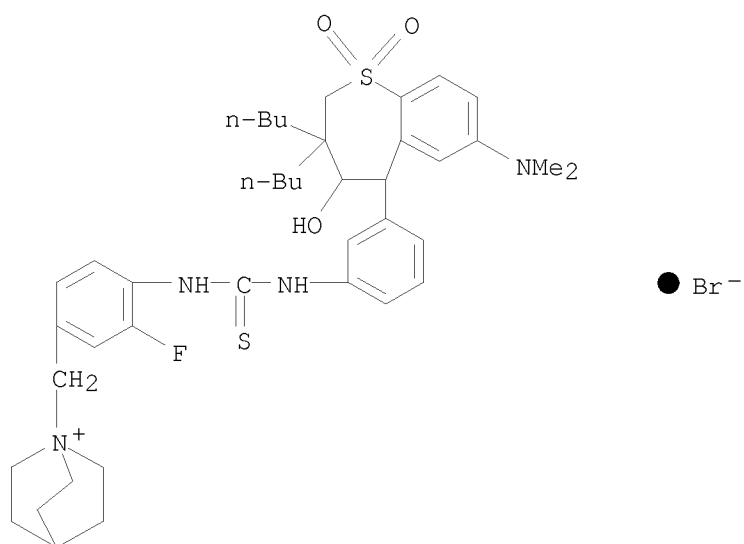
PAGE 1-A



PAGE 2-A



RN 1246369-95-8 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 1-[[4-[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-1,1-dioxido-1-benzothiepin-5-yl]phenyl]amino]thioxomethyl]amino]-3-fluorophenyl]methyl]-, bromide (1:1)
 (CA INDEX NAME)



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RN 864356-43-4 REGISTRY
ED Entered STN: 03 Oct 2005
CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
1-[[4-[[[[3-[3,3-dibutyl-7-(dimethylamino)-2,3,4,5-tetrahydro-4-hydroxy-
1,1-dioxido-1-benzothiepin-5-
yl]phenyl]amino]thioxomethyl]amino]phenyl]methyl]- (CA INDEX NAME)
MF C40 H56 N5 O3 S2
CI COM
SR CA

